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EMERGI-LITE

“The Quality Name In Emergency Lighting”

Since the introduction of our first product in 1978, Emergi-Lite has pioneered and has led engineering specifications in the manufacture of reliable, quality emergency lighting equipment.


Over the years, we have gained worldwide recognition as an innovative industry leader producing the best emergency lighting life safety equipment – a leadership position attained through our continuing strict adherence to the most rigorous control standards known to the industry. Our North American manufacturing facility is unique to the industry since every product is manufactured under one roof and distributed to either our loyal stocking distributors or directly to a new or renovated facility.

The latest technology goes into our “Advanced Diagnostic” (AD) board design and the energy efficient ALINGAP LED lamps utilized in our exit signs. Every Emergi-Lite product – from our small capacity plastic units to our decorative architectural units and large cabinet extra wattage capacity units – is line tested to meet the rigorous standards of emergency lighting performance before shipment to the field.

As part of the Thomas & Betts family, our ongoing commitment is to provide products of the highest quality at competitive prices – products like our newly-released NEMA-4X family of products and our decorative indoor and outdoor remote fixtures. Our continued growth, success and high levels of customer satisfaction are proof that we are accomplishing our goals.

In this catalog, we are proud to present the complete range of Emergi-Lite emergency lighting equipment, products we believe are amongst the finest available anywhere in the world.

Thank you for your continued support.


Phillip A. Morreo
Vice President, Sales
National Account and Strategic Planning

Photograph by Jean-Sébastien Ouimet



Setting the standard

Combining high performance, reliability, quality and cost efficiency, the products in this brochure are manufactured to meet, and in some cases surpass, the highest standards—your standards.

Up to code

The complete range of Emergi-Lite emergency lighting products meets or exceeds the requirements of UL 924, NFPA 101, Life Safety Code, N.E.C. and I.C.C. standards.

Rigid control standards

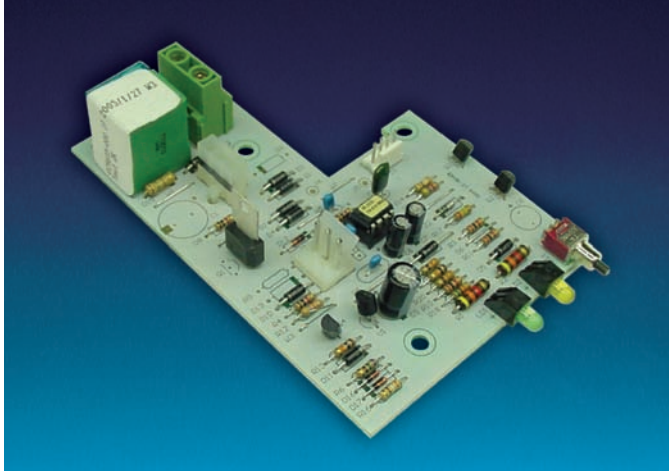
From product design and manufacturing through to final installation, all units are built to exacting standards to meet style, performance, reliability, ease-of-installation and cost requirements.

A tradition of innovation

Since 1978, Emergi-Lite has been a pioneer in the development and manufacture of reliable, high quality life safety equipment.

We look forward to continuing this tradition into the future.





Emergi-Lite's PulsePlus circuitry utilizes the latest in solid state design to provide a technically advanced charger combined with features and functions that promote long reliable battery life and excellent unit performance.

The design of the PulsePlus circuit takes into account the long periods of inactivity typical of standby emergency equipment. Batteries are kept at full capacity by a pulse charge that allows the battery to cycle continuously.

This greatly reduces the problem of grid corrosion and dramatically increases battery performance.

Emergi-Lite computer-tests all active components on the circuit boards during assembly. Critical functions such as brownout, low voltage disconnect, and charge voltage are individually monitored and adjusted at the factory.

Standard Features

120/277 Volt Input

Capability to operate with 120 volt or 277 volt input.

Fused Output Circuit for Units with Remote Capacity

Emergency units up to 54 watts have a single fused output circuit. Units over 54 watts have two fused output circuits supplied standard.

Dual Diagnostic Indicator Lights

Dual indicators, red and amber continuously monitor the condition of the battery, charge circuit and presence of AC.

Temperature Compensation

At high ambient temperatures, batteries need less charge voltage to recharge. Cold temperatures, batteries require a higher charge to maintain full capacity. The PulsePlus charger automatically adjusts the charge voltage to precisely what the batteries require at a given temperature.

Sealed Relay

Sealed relay protects against environmental contaminants.

Low Voltage Battery Disconnect

The lighting load is disconnected from the battery at 87.5% of nominal battery voltage. This prevents deep discharge damage to the battery.

Brownout Protection

Emergency lamps energized when AC voltage falls to approx. 80% of nominal voltage, the level at which most fluorescent and HID fixtures extinguish.

Battery Lockout

This labor saving feature prevents the battery from discharging when the unit is installed to a non-energized circuit. The battery is electronically locked out until the unit is energized with AC power. Contractors do not have to return to a job site to connect batteries when the building's main power is turned on. They can install the unit and connect the battery in one convenient operation.

Reverse Polarity Protection

A polarized plug is used to connect the battery to the circuit board, thus preventing damage from occurring to the system.

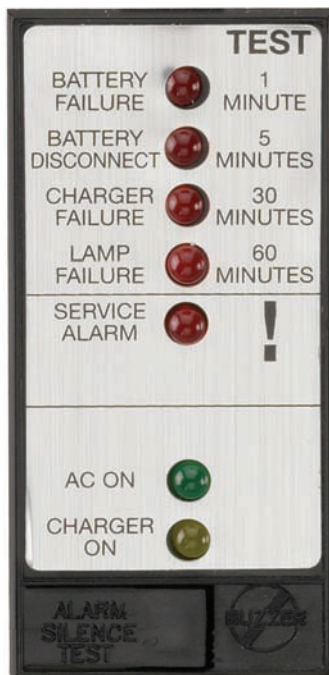
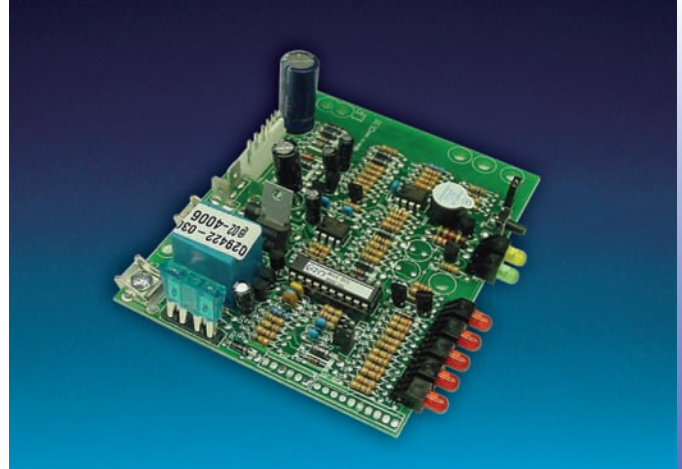
Current Limited Output

Prolongs battery life by preventing overheating and battery gassing during recharge.

Standard Features

By incorporating our most popular standard diagnostics features with a high-powered 8-bit microcontroller, our new Advanced Diagnostics system assures unsurpassed reliability in one, totally contained system. In the event of an equipment malfunction, the Advanced Diagnostics system produces an audible warning in the form of an intermittent beep and the LED indicator associated with the fault will illuminate continuously. When the problem is acknowledged by depressing the alarm/silence/test button, the alarm is silenced and the LED indicator changes to a flashing mode until the problem is corrected.

- Continually monitors system parameters
- Incorporates state-of-the-art microcontroller technology
- AD includes audio and visual service alarms
- ADNA non-audible version for visual service alarms only
- Self-testing in accordance with NFPA101, Life Safety Code



Features

Battery Failure

(Red) Illuminates if the battery is shorted or battery voltage drops below preset value. Will also detect incorrect battery (ie. 6Vdc vs. 12Vdc)

Battery Disconnect

(Red) Illuminates if the battery circuit is open.

Charger Failure

(Red) Illuminates when charger is not functioning properly by monitoring the charger current.

Lamp Failure

(Red) Illuminates when one or more emergency lamps fail. Also monitors remote lamps.

Service Alarm

(Red) Illuminates when a fault is detected that requires a qualified service technician.

AC-On

(Green) Lit when line voltage is present.

Charger On

(Amber) Illuminates when charger is recharging the battery.

Alarm On

Button is used to acknowledge and silence alarms.

Also functions as a manual test switch to simulate a power failure.

Self Testing

Unit tests itself every thirty days for one minute, thirty minutes on the sixth month and ninety minutes annually.

To Order for Compatible Unit

Add Suffix: AD to model number

Add Suffix: ADNA (for non-audible circuit) to model number.

Popular Options

Emergi-lite life safety equipment is available with a range of options that can be added to enhance performance, simplify testing or adapt equipment for use in specific environments. Please refer to individual product pages to verify availability of individual options on specific equipment.

Voltmeter

Option provides a visual indication, in the test mode, of the unit's battery voltage. The good/check meter face allows maintenance personnel to recognize charger and battery function.

Add Suffix: -V

Ammeter

Option provides an indication of charge current when the unit is in the equalize mode. This verifies charger capability and the current acceptance of the battery.

Add Suffix: -A

Dual Circuit

Option provides two A.C. input circuits to permit 2 separate A.C. sources to energize the sign. Available in 120/120Vac or 277/277Vac (AC only models).

Add Suffix: -2CKT

Tamper-Proof / Vandal-Resistant Screws

Tamper-proof screws may be used on certain units to avoid unauthorized entry to circuitry or vandalism.

Add Suffix: -VR

Disconnect Switch

Option will disconnect lamp load when area is not in use during prolonged power failure. The switch may also be used to reactivate emergency power to remote or built in heads.

Add Suffix: -DS

Time Delay

Option is designed to be used in areas where HID type lamps are used for normal lighting. As these lamps require several minutes to re-strike and to produce their nominal lighting output, it is necessary to also hold the emergency lighting on for this period, even after the AC utility has been restored. A time delay unit can be helpful in areas where it is difficult to directly access an emergency lighting unit's test switch. The power to the unit can be briefly switched off and on at the breaker panel, and the maintenance person can then return to the unit and observe a timed emergency operation.

Add Suffix: -D1 (5 minutes), -D2 (10 minutes), -D3 (15 minutes)

Damp Location

Option for environments that are subject to moderate amounts of moisture (humidity), and a temperature range between 10°C (50°F) and 40°C (104°F). Example: partially protected exterior areas such as canopies, stairwells, etc.

Add Suffix: -DL

Temperature Control Heater

Option to be used in areas where temperature may drop below 0°C (32°F). The thermostat will activate the heating pad at 0°C and will cut off at 16°C (61°F). The heating pad is rated at 50 watts. Contact factory for temperature limitations.

Add Suffix: -H1 (120V) -H2 (277 V)

Self-Test/Diagnostic Feature (for exit signs)

Option is designed to continuously monitor the charger assembly, battery and LED assembly current. If a fault is indicated the external service required indicator will illuminate. The diagnostic/self test will self test for 30 seconds every 30 days, 30 minutes every 60 days and 90 minutes annually. Meets NFPA 101 Life Safety Coderequirements for periodic testing.

Add Suffix: -D



Decorative Series

NEW Lux-Ray Series	8-9
NEW Revelation Series	10-11
RS Series	12
TS Series	13
Distinction EFR 2 Series	14
GS Series	15
PS Series	16
Eversun Series - Discontinued	17
Sharpeye Series - Discontinued	18
Everlast Series - Discontinued	19



A combination of Style & Performance
*The **Lux-Ray Series** combines the photometrical performance to a visually appealing design.*

An efficient reflector combined with two Xenon lamps deliver an incredible center-to-center spacing.

The die-cast aluminum housing is offered in a wide range of colors to complement any interior. It will blend with the most sophisticated décor.

*With it's fully gasket housing, the **Lux-Ray Series** is also ideal for extreme outdoor environments.*

Designed to meet the needs of architects and designers without sacrificing safety, this fixture is available in a wide range of colors to complement any interior.

Standard Features

Reliability

The Lux-Ray Series comes complete with a 3-year full warranty (excluding lamps and fuses).

Unit Data

The Lux-Ray units are made of durable cast aluminum housing, finish with textured polyester powder coat paint. Four colors are available: off white, black, platinum gray and dark bronze. The vacuum-plated die-cast reflector will last over time. The lens is made of an impact and UV resistant polycarbonate.

Units can be installed on various J-box with the universal mounting pattern. It can also be surface mount using the rigid conduit entry provision on the top of the unit.

Lamp information

The Lux-Ray units are furnished with two high-output Xenon lamps. These lamps, combined with a patent pending reflector, deliver an incredible center-to-center spacing. The reflector has been designed to provide an evenly distributed illumination pattern for corridors, up to 6' wide.

Charger

All self-powered units come with a 120/277Vac, 60Hz., dual input voltage. Chargers also include low voltage disconnect to prevent deep discharge, battery lockout to prevent battery drain prior to energizing the utility power, brownout protection which will automatically switch unit into emergency mode if the utility power sags below 80% of nominal and battery reverse polarity protection.

Lead-Calcium Models are equipped with the Pulse Plus circuitry that will promote long reliable battery life and excellent performance. This current limiting charger will minimize energy consumption.

Nickel Metal Hydride Models are equipped with the non-audible version of the Advanced Diagnostics system. This charger is a self-test and self-diagnostic charger. It will monitor and indicate any of the following failures: battery disconnect, battery, charger and lamp failures. Discharge test can also be initiated manually.

Controls or electrical

- Lead-Calcium Models: green LED indicates AC power is on.
- Nickel Metal Hydride Models: bi-color LED indicates battery state of charge, test activation and four-state diagnostic status.
- Test switch allows for quick operational check of the entire system.

Power Requirements

120/277Vac, 60Hz, 0.11/0.05 Amp

Options

The Lux-Ray Series is offered in three configurations. Also available as remote. It can be used in a wide range of applications, environments:

- LUXL Regular interior package: cost efficient solution equipped with Lead-Calcium battery. +20°C to +30°C (+68°F to +86°F)
- LUXN Exterior package: designed for a wide range of temperature. UL listed for wet and cold location. Operating temperature: -20°C to +40°C (-4°F to + 104°F)
- LUXN2 High output package: ideal for interior applications where the photometrical performance the 10W Xenon lamps is required. Equipped with NiMH battery, UL listed for operating temperature: +20°C to +30°C (+68°F to +86°F)

Power Consumption Chart

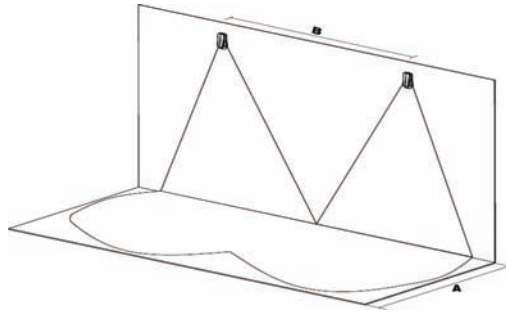
Model	AC Specs	DC Specs
LUXL, LUXN	120/277 Vac 0.11/0.05Amp Less than 10.5 W	6V 12W Min. 90 minutes
LUXN2	120/277 Vac 0.11/0.05Amp Less than 10.5 W	6V 12W Min. 90 minutes

Replacement Lamps

Model	Specifications
570.0213-E	X6W, 6V - 6W
570.0214-E	X10W, 6V - 10W

ISO Curve

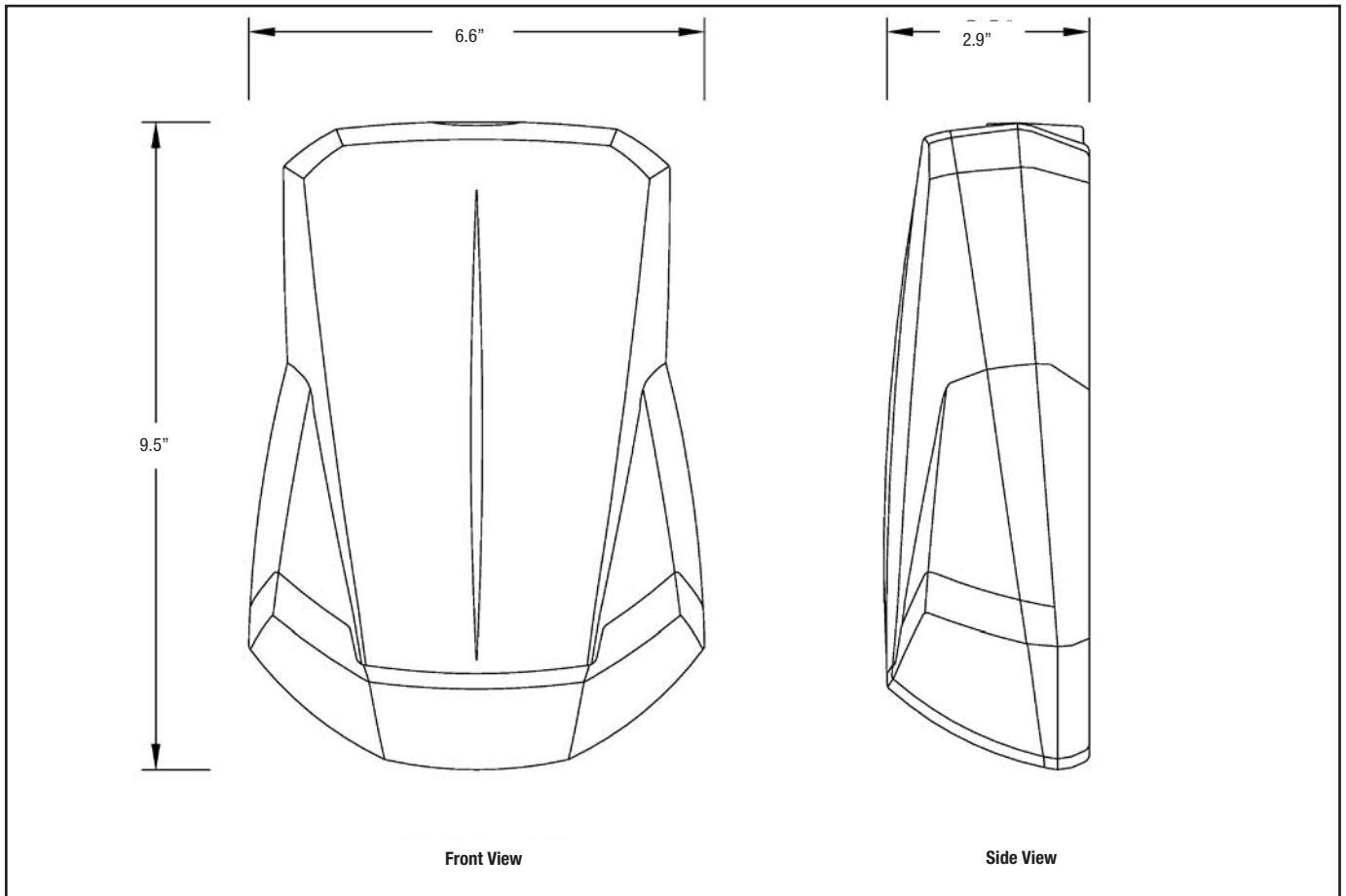
Lamp Type	Mounting height	Center-to-center
		A=3' A=6'
2 X 6W	7.5'	B=28' B=19'
	8.5'	B=25' B=18'
2 X 10W	7.5'	B=30' B=28'
	8.5'	B=34' B=30'



Note: Photometric results shown are based on a simulation using the AGI32 software with a 1 foot-candle average and 0.1 foot-candle minimum with a 40:1 maximum ratio. Lightalarms assumes no responsibility for local requirements or specific project variable. This is a guideline to be used as a design aid, not guarantee of any code compliance.

Outline and Dimensions

Dimensions are approximate and subject to change. Unit supplied with bar hanger kit package.



How To Order (example)

Color	LUXL Series	ZU Lamp Wattage*	-D1 Options
OW = off white	LUXL = 6V - 12W, lead calcium (+20°C to +30°C) std charger	ZU = 6V-6W	-D1 = 5 min time delay
B = black	LUXN* = 6V - 12W, NiMH (-20°C to +40°C) Comes with ADNA	ZV** = 6V 10W	-D2 = 10 min time delay
BZ = dark bronze	LUXN2* = 6V - 20W, NiMH (+20°C to +30°C) Comes with ADNA		-D3 = 15 min time delay
PG = Platinum gray			
<i>Other colors available at a premium. Consult the factory.</i>	<i>*ADNA: Advanced Diagnostic, non audible, will self test the unit for 30 seconds every 30 days. 30 minutes every 60 days and 90 minutes annually.</i>	<i>*Xenon wedge base T3-1/4</i>	<i>time-delay available only with ADNA</i>
		<i>** only available in LUXN2 version.</i>	



Revelation Series

NEW & Improved Design THE UNSEEN SOLUTION

Virtually Invisible Emergency Lighting

The **Revelation Series** is architecturally designed for unobtrusive use in walls with cavity (dry wall with 4-inch studs) or un-insulated ceilings with horizontal beams or T-bar structures. In normal conditions (stand-by) the unit is completely concealed in the wall or ceiling. In case of power failure the door of the unit rotates open 180° and exposes the emergency lights (two high-efficiency MR16 lamps) to illuminate the path of egress.

Once AC power returns or at the end of discharge period, the lights turn off and the door rotates closed automatically, driven by a patent-pending, energy storage circuit. If needed the backbox can be shipped separately.

Standard Features

Reliability

Each unit is fully computer-tested and aligned mechanically for optimum operation. The electrical parts (motor, electronic circuitry) carry a five-year warranty.

Unit Data

The normally exposed parts of the unit (flat door and frame) are covered with a high-quality, powder coated textured off-white finish, which integrates well with most wall and ceiling paints. The surface finish can also be customized on site with paint, wallpaper or other coverings. The self-powered unit is contained in a heavy-duty galvanized steel back-box, concealed in the wall or ceiling and includes a combined test switch and pilot light, accessible through the frame. Special bar hangers for installation in sheet rock or T-bar ceilings are included in the package. The module includes the electrical junction box and is installed on the wall stud or ceiling beam with the help of a simple, U-shape bracket. Each unit comes standard with two (2) MR-16 halogen lamps, of specified power ranging from 12W to 50Watts each.

Pulse-Plus Battery Charger:

The charger circuitry offers a 120/277 Vac 60 Hz, 0.25/0.12 Amp, automatic charger, built around a micro-controller integrated circuit. Circuit standard features: current limiting, temperature-compensated cut-off voltage, brown-out transfer, low-voltage battery disconnect and battery lockout (Prevents activation in the d.c. mode until initial a.c. activation).

Power requirements: 120/277 Vac, 60 Hz, 0.25/0.12 Amps



Diagnostic / Self Test Feature (optional)

Diagnostic / Self-Test circuitry is optional on all self-powered models. This circuitry is programmed to ensure the equipment readiness and reliability by continuously monitoring every critical function of the unit. If a problem occurs, the pilot light located on the front of the unit, will change color from solid green to a flashing red light, indicating a fault. A detailed diagnostic legend is available on the door back side and provides fault identification (battery, charger circuitry, lamps) for the maintenance personnel. The self-test feature will simulate a power loss for minimum 30 seconds every 30 days, 30 minutes every 6 months and 90 minutes annually.

Options

(Add Suffix to Model No.)

Suffix

- Damp location listing (available on all models except RTN100) DL
- Advanced diagnostic (audible) AD
- Advanced diagnostic (non-audible)..... ADNA
- Time delay (D1=5, D2=10, or D3=15 minutes) D_*

** (AD or ADNA) includes a Time Delay function, if needed it can be enabled/disabled in the field or it can be preset at the factory by including the suffix AD-D_ or ADNA-D_

Accessories (order as a separate item)

- Remote test switch (Metal Faceplate): RTS
- Remote test switch (Plastic Faceplate): RTS-1

Power Consumption Chart

AC Input	Maximum		Stand-By*	
	Input Current	Input Power	Input Current	Input Power
120V	0.25 A	30 watts	0.1 A	11 watts
277V	0.12 A	30 watts	0.05 A	11 watts

*Stand-by power consumption is 50% lower for Lead-Calcium batteries

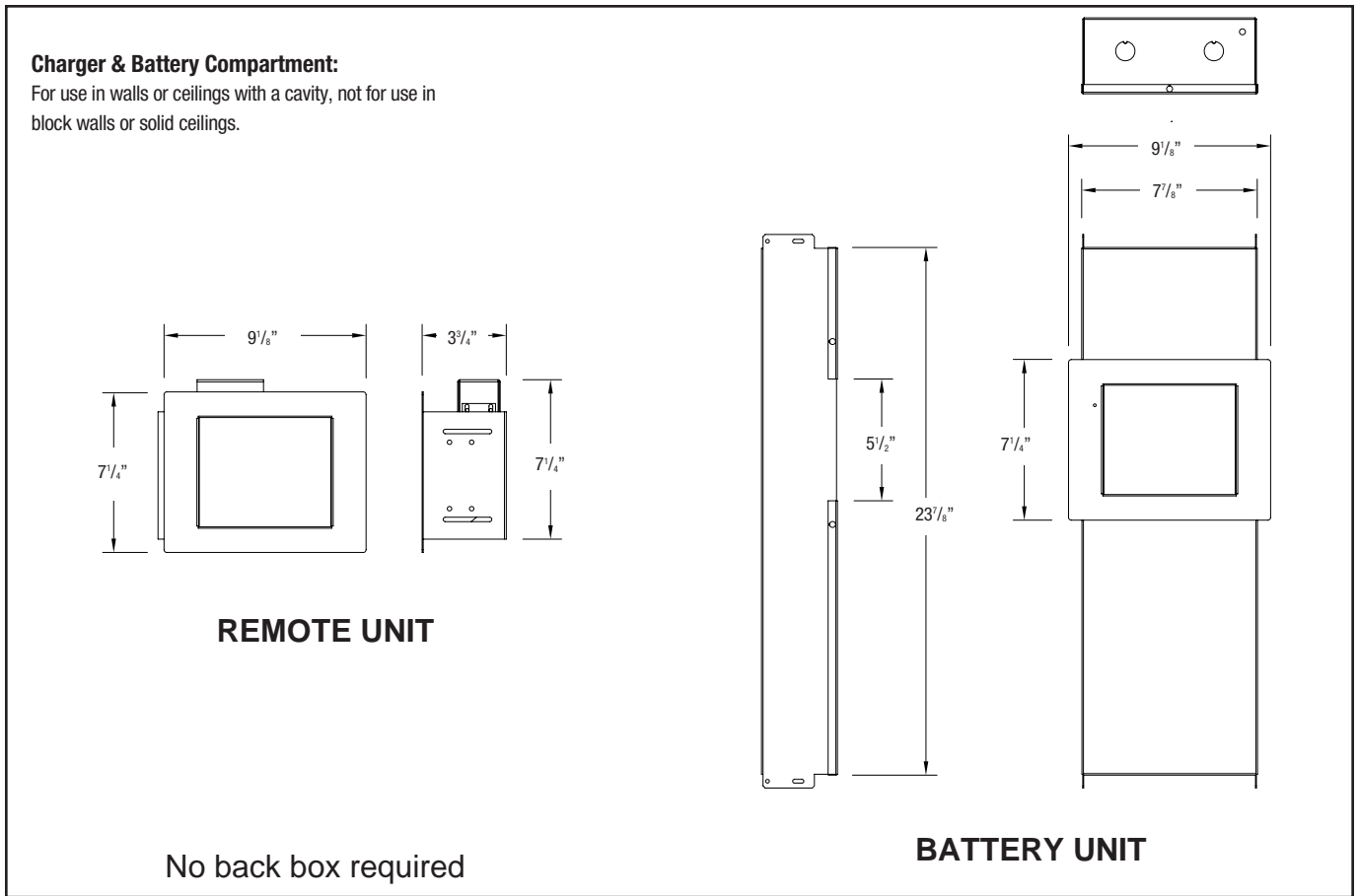
Unit Rating Chart

Model Number	*Watts to 871/2% of rated battery voltage			
	1 1/2 hrs.	2 hrs.	4 hrs.	8 hrs.
RTM40, RTN40	40	30	24	-
RTM70, RTN70	70	50	40	24
RTM100, RTN100	100	70	50	40

*National Electrical Code Specification

Outline and Dimensions

Dimensions are approximate and subject to change. Unit supplied with T-bar hanger kit package.



How To Order (example)

	RT	M	100	-2(50)	DL
Battery Unit	<i>Series</i>	<i>Battery Type</i>	<i>Unit Capacity</i>	<i>Lamp Wattage</i>	<i>Options</i>
	RT	M = Lead-Calcium N = Nickel-Cadmium	40 = 12V, 40W 70 = 12V, 70W 100 = 12V, 100W	-2(12) = 12W, MR16 each head -2(20) = 20W, MR16 each head -2(35) = 35W, MR16 each head -2(50) = 50W, MR16 each head -2(20H) = 20W, MR16 high lumen output -2(35H) = 35W, MR16 high lumen output -2(50H) = 50W, MR16 high lumen output	AD = advanced diagnostic, audible ADNA = advanced diagnostic, non-audible D1 = time delay 5 minutes D2 = time delay 10 minutes D3 = time delay 15 minutes DL* = damp location X = backbox shipped separate
					<i>*Available on all models except RTN100.</i>
Generator Unit	12	RTR	(20)	DL	
	<i>Remote Voltage</i> 12 = 120Volts DC 24 = 24Volts DC	<i>Series</i> RTR2 = remote fixture	<i>Wattage, each of the 2 lamps*</i> (12) = 12W, each head (20) = 20W, each head (35) = 35W, each head (50) = 50W, each head (20H) = 20W, MR16 high lumen output (35H) = 35W, MR16 high lumen output (50H) = 50W, MR16 high lumen output	<i>Options</i> DL = damp location	

*High lumen output lamps available with 12V only.

RS Series 6 and 12 Volt Decorator Recessed



Ceiling mounted with EF-9 decorative heads.



Ceiling mounted with EF-150 decorative heads.



The **RS Series** is architecturally designed for low profile, unobtrusive use in either finished ceilings or walls. Models are available with two EF-9 heads standard or two EF-32 or EF-18 heads optional, to compliment any decor.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Approved use in the Commonwealth of Pennsylvania and New York City.

Sealed Maintenance-Free Batteries

- Nickel-Cadmium
- Long Life Lead
- Lead-Calcium

Mounting

Unit supplied with adjustable bar hangers for grid ceilings or can be framed into studs/joists.

Standard Features

Reliability

The RS Series comes complete with a 3-year full warranty, excluding lamps and fuses.

Unit Data

Constructed of 20 gauge steel with an off-white baked enamel finish. Furnished with EF-9, EF-10, EF-18, EF-32 or EF-150 heads with 6 or 12 volt operation. Unit includes fully recessed assembly for ceiling or wall mount.

PulsePlus Charger

PulsePlus circuitry offers 120/277 volt input 60 Hz., 0.3/0.15 Amps (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensated charger, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

Black	Add PrefixB
Description	Add Suffix
Ammeter or Voltmeter (Choose only one).....	-A* or -V*
Advanced Diagnostics (Lead-Calcium only).....	-AD
Advanced Diagnostics, Non-Audible	-ADNA
Time Delay (Specify 5, 10 or 15 minutes).....	-D1, D2, D3**
EF-10 Lighting Heads	10
EF-18 Lighting Heads	18
EF-150 Lighting Heads (cylinder heads).....	C
EF-150 Decorative Heads (white).....	150
New York City (EF-18 12 Watt Lamps)	-NYC

*Not available with diagnostics options.

**Standard 15 minutes with AD/ADNA option.

**Not required when using the AD/ADNA option.

Accessories (order as a separate item)

Wire Guard (Units with EF-9, EF-10 or EF-18, EF-150 Heads)	WG6
Wire Guard (Units with EF-150 Cylinder Heads).....	WG7
Remote Test Switch (metal face plate)	RTS
Remote Test Switch (plastic face plate)	RTS-1
T-Bar hanger	TBH

How To Order (example)

For standard units without options only *Options are added to units by order Series, Battery, Watts and Heads listing suffix at end of model #*

RS	M	18	-	2	*HB	-	D1
Series	Battery Type	Watts		Heads	Lamp Option		Option
	Lead-Calcium	for 90 min.		EF-9	6V 8W halogen		Time delay
					* An HB lamp is 6V, 8watt halogen		

Unit Rating Chart

Each unit is furnished standard with two 9 watt High Intensity Incandescent lamps.

EF-9 lamp heads: 6 or 12 volt 9 watt High Intensity Incandescent lamps.

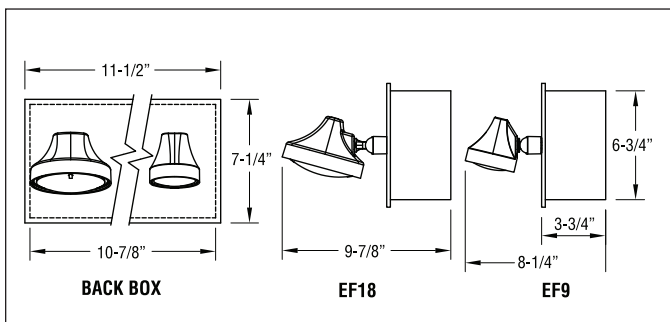
UNIT EQUIPMENT - NO REMOTE CAPABILITY							
Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number		*Watts to 87 1/2% of rated battery voltage 1 1/2 hrs. 2 hrs. 3 hrs. 4 hrs.			
		EF-150 Cylinders	EF-9 Lamp Heads				
Nickel-Cadmium <input type="checkbox"/>	6	RSC18-2150	RSC18-2	18	12	10	-
Long Life Lead <input type="checkbox"/>	6	RSE18-2150	RSE18-2	18	11	8	-
Lead-Calcium <input type="checkbox"/>	6	RSM18-2150	RSM18-2	18	12	9	-
UNIT EQUIPMENT - WITH REMOTE CAPABILITY							
Nickel-Cadmium <input type="checkbox"/>	6	RSC25-2150	RSC25-2	25	18	12	9
	12	12RSC36-2150	12RSC36-2	36	21	15	12
	12	12RSC50-2150	12RSC50-2	50	36	25	18
Long Life Lead <input type="checkbox"/>	6	RSE27-2150	RSE27-2	27	19	14	10
	6	RSE36-2150	RSE36-2	36	24	17	13
	12	12RSE36-2150	12RSE36-2	36	24	17	13
Lead-Calcium <input type="checkbox"/>	6	RSM27-2150	RSM27-2	27	18	14	10
	6	RSM36-2150	RSM36-2	36	25	20	14
	12	12RSM36-2150	12RSM36-2	36	25	20	14

*National Electrical Code Specification

New York City Approved
 = Advanced diagnostics available

Outline and Dimensions

Dimensions are approximate and subject to change.



The **TS Series** is architecturally designed for unobtrusive use in T-Bar ceilings. The off-white, fully recessed housing harmonizes with ceiling designs.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Approved use in the Commonwealth of Pennsylvania and New York City.

Sealed Maintenance-Free Batteries

- Nickel-Cadmium
- Lead-Calcium
- Long Life Lead

Standard Features

Reliability

The TS Series comes complete with a 3-year full warranty, excluding lamps, pilot lights and fuses.

Unit Data

Constructed of 20-gauge steel housing with off-white baked enamel finish. A removable cover on the back box allows for ease of installation and full access to the battery and charger. Unit comes standard with two (2) off-white EF-18 heads with one 9-watt wedge based lamp per head. The TS Series has provisions for mounting up to three heads on cabinet.

PulsePlus Charger

PulsePlus circuitry offers 120/277 volt input 60 Hz., 0.3/0.15 Amps (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensated charger, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

Black..... B

Add Prefix

Description

Ammeter or Voltmeter (Choose only one)..... -A* or -V*

Add Suffix

Advanced Diagnostics (Lead-Calcium only)..... -AD

Advanced Diagnostics, non-audible..... -ADNA

Time Delay (Specify 5, 10 or 15 minutes)..... -D1, D2, D3**

New York City (12 Watt Lamps)..... -NYC

EF-150 Decorative Heads (white)..... 150

EF-9 Lighting Heads (two 9-watt heads)..... 29

EF-18 Lighting Heads..... 18

*Not available with diagnostics options.

**Standard 15 minutes with AD/ADNA option.

**Not required when using the AD/ADNA option.

Accessories (order as a separate item)

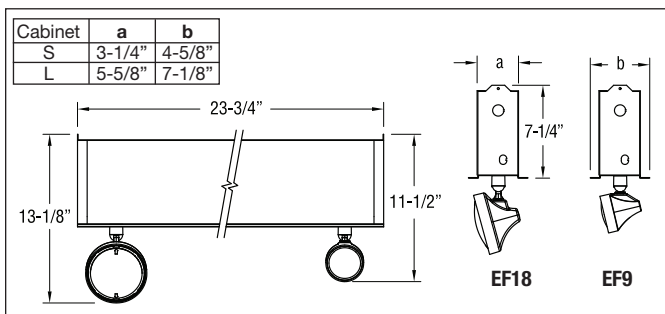
Remote Test Switch (metal face plate)..... RTS

Remote Text Switch (plastic face plate)..... RTS-1

T-Bar Hanger TBH

Outline and Dimensions

Dimensions are approximate and subject to change.



Unit Rating Chart

Furnished standard with two 9 watt High Intensity Incandescent lamps.

UNIT EQUIPMENT - NO REMOTE CAPABILITY							
Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	*Watts to 87 1/2% of rated battery voltage				Cabinet Size
			11 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.	
Nickel-Cadmium <input type="checkbox"/>	6	TSC18-2**	18	12	9	6	S
Long Life Lead <input type="checkbox"/>	6	TSE18-2	18	11	8	6	S
Lead-Calcium <input type="checkbox"/>	6	TSM18-2	18	12	10	7	S
UNIT EQUIPMENT - WITH REMOTE CAPABILITY							
Nickel-Cadmium <input type="checkbox"/>	6	TSC25-2**	25	18	12	9	S
	12	12TSC36-2**	36	21	15	12	S
	12	12TSC50-2**	50	36	25	18	S
	24	24TSC100-2	100	73	50	37	S
Long Life Lead <input type="checkbox"/>	6	TSE27-2	27	19	14	10	S
	6	TSE36-2	36	24	17	13	S
	6	TSE50-2	50	32	22	16	S
	6	TSE110-2	110	74	57	43	L
	12	12TSE36-2	36	24	17	13	S
	12	12TSE54-2	54	37	28	21	S
	12	12TSE72-2	72	62	43	33	L
	12	12TSE110-2	110	74	57	43	L
	24	24TSE72-2	72	48	34	26	L
	24	24TSE110-2	110	74	57	43	L
Lead-Calcium <input type="checkbox"/>	6	TSM27-2	27	18	14	10	S
	6	TSM36-2	36	25	20	14	S
	6	TSM54-2	54	37	28	21	S
	6	TSM81-2	81	54	42	30	L
	6	TSM110-2	110	72	56	40	L
	12	12TSM36-2	36	25	20	14	S
	12	12TSM54-2	54	37	28	21	S
	12	12TSM110-2	110	72	56	40	L
	24	24TSM110-2	110	72	56	40	L

*National Electrical Code Specification

New York City Approved

= Advanced diagnostics available

How To Order (example)

For standard units without options

Options are added to units at end of model #

TS	C	18	-2	UA	-D1
Series	Battery Type	Watts	No. of Head	Lamp Option	Option
	Nickel-Cadmium	for 90 min.	on unit	6V 9W Sealed Beam	Time Delay

NOTE: See lamp data sheet for other lamp wattage



Standard Features

Emergi-Lite EFR2 Distinction Series self-powered down light is a new generation in high-tech power disruption lighting protection. Utilizing state-of-the-art MR16 halogen lamps and industry-leading battery and wiring technology, the new Emergi-Lite self-powered down light packages these robust, industrial-strength qualities into a decorative, easy-to-install fixture that is a unique combination of safety and style.

Perfect for any commercial or high-end interior that calls for looks as well as capability.

No matter what the job, Emergi-Lite has the fixture to fit your budget, your code requirements, and your client's idea of an attractive decor.

Unit Data

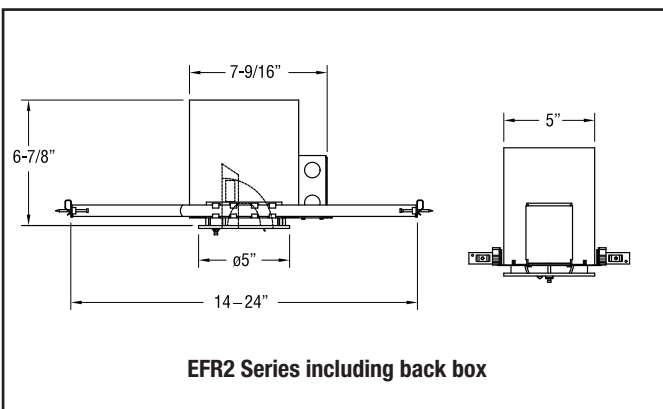
The recessed gimbal is constructed of a durable, powder coated, die cast aluminum and is furnished with an MR16 lamp source powered by a sealed Nickel-Cadmium battery. The unit will be furnished with a metal, fully recessed backbox to house the electronics, battery and all associated wiring. Furnished standard with bar hanger kit.

The light source shall be adjusted by rotating the gimbal through 359° in azimuth and or positioning the lamp through 90° in pitch.

The light source will be 6 volts 6 watts MR16 halogen lamp. The emergency lighting fixture will provide illumination in the emergency mode directly from the internally mounted nicad battery. The duration of operation provided by the nicad battery will be no less than 90 minutes as required by NFPA 101 Life Safety Code.

Outline and Dimensions

Dimensions are approximate and subject to change.



Safe, simple and sophisticated.

Easy to access for maintenance personnel.

Quick disconnect feature allows the contractor to easily install the trim to the housing.

Evaluated to UL 924 Standards.

Operation

Operation is completely automatic. A brownout sensitive transfer circuit automatically connects the emergency lamp upon either complete loss of normal AC power or when the AC voltage drops down to a point where normal AC lighting will not function. The unit also monitors DC battery voltage and disconnects the lamps before the battery can go into deep discharge (in conditions of extended power failures). When the AC power is restored the Charger automatically returns the battery to full charge in 24 hours, and monitors the battery to maintain full charge.

Charger

Electrical power requirements: 120 V, 60 Hz, 0.046 A, 4.17 W
277 V, 60 Hz, 0.024 A, 4.76 W

Transfer: Dust tight relay automatically and instantly energizes lamp load upon failure of AC supply. Battery protection circuit automatically shuts down lamp load when battery reaches 87 1/2% of it's rated voltage.

Charger is 100% solid state, includes auto-equalize, temperature compensation and is controlled by a 1% Zener reference.

Battery

The self-powered Distinction series down light contains a long-life Nickel-Cadmium battery. This battery will operate in extreme temperature ranges without experiencing the dry out problem sometimes associated with a plastic case battery design. At low temperatures the low internal resistance of the cell minimizes internal voltage drop. The low self discharge rate reduces capacity loss during shipment and storage.

How To Order

Optional colors

	Suffix
Black	BK
Brushed Nickel	BN
Chrome.....	CH
Polished brass	PB
White	WH

Accessories (order as a separate item)

Remote Test Switch (metal face plate).....	RTS
Remote Text Switch (plastic face plate)	RTS-1
Replacement lamp number(6V 6W)	580.0074-E

How To Order (example)

EFR2	WH	SP	-U
Model	Color	Standard Catalog	Model
EFR2	WH=white	Construct	-U=USA model
	BK= black	SP=self-powered	
	BN =brushed Nickel		
	CH= chrome		
	PB= polished brass		



6 Volt Recessed Down Light **GS Series**

The **GS Series** combines the function of a well designed emergency lighting fixture with the style of a desirable looking recessed downlight. Several models and lamp choices provide flexibility in the emergency lighting layout while keeping an aesthetically pleasing look to the interior.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Approved use in the Commonwealth of Pennsylvania and New York City.

Sealed Maintenance-Free Batteries

- Nickel-Cadmium
- Lead-Calcium
- Long Life Lead

Standard Features

Reliability

The GS Series comes complete with a 3-year full warranty, excluding lamps, pilot lights and fuses.

Unit Data

Low Profile Trim Ring*, molded in tough polycarbonate, has a semi-gloss white finish to complement a variety of ceilings. The fully recessed back box is constructed of 20-gauge steel.

Adjustable Gimbal directs the light from one PAR 36 light head.

Inconspicuously Mounted but Easily Accessed... the test switch and LED pilot light are located on the side of the lamp ring standard**.

Easy To Install... A slide out chassis and two quick-connect plugs make installation and servicing easy. Adjustable hanger bars are supplied with each unit.

PulsePlus Charger

PulsePlus circuitry offers 120/277 Vac 60 Hz., 0.3/0.15 Amp, fused output circuit(s), long life LED pilot indicator, temperature compensated, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

Black **Add Prefix**B

Add Suffix

New York City (12 watt lamp)-NYC*

* NYC version includes a metal trim and pivot assy.

NYC version has the test switch and pilot lamp located on the gimbal ring.

Accessories (order as a separate item)

Remote Test Switch (metal face plate).....RTS

Remote Text Switch (plastic face plate)RTS-1

How To Order (example)

For standard units without options only order Series, Battery, and Watts

Options are added to units by listing suffix at end of model #

GS	C	18	UA	- NYC
Series	Battery Type	Watts	Lamp Option*	NYC
	Nickel-Cadmium	for 90 min.	6V 9W Sealed Beam Incandescent	Approved Model
* see lamp data for other lamp wattages.				

NOTE: Includes standard lamp (570.0016)



Unit Rating Chart

Each unit is furnished with one 6 volt 9 watt wedge-base lamp. Other wattages available, see lamp data sheet for selection of PAR lamps.

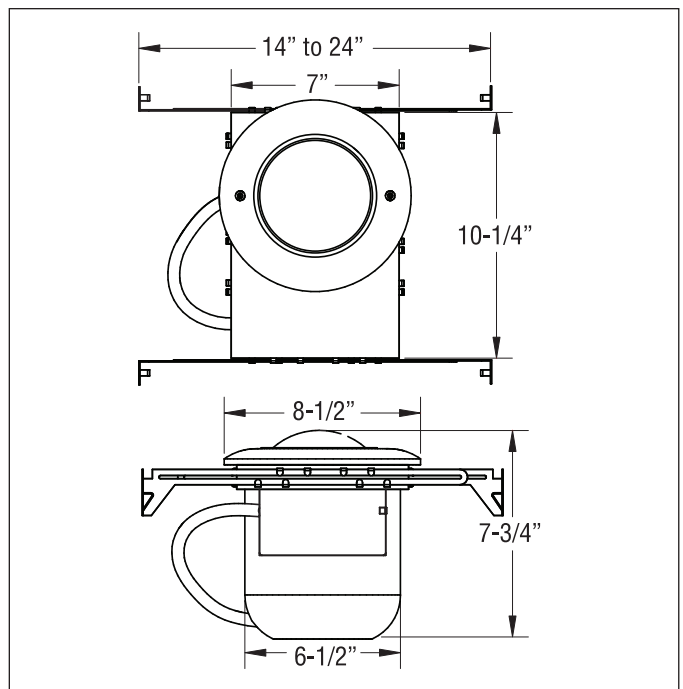
UNIT EQUIPMENT - NO REMOTE CAPABILITY						
Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	*Watts to 871/2% of rated battery voltage			
			11/2 hrs.	2 hrs.	3 hrs.	4 hrs.
Lead-Calcium	6	GSM10-BH	8	6	-	
Long Life Lead	6	GSE9-BH	8	7	-	
UNIT EQUIPMENT - WITH REMOTE CAPABILITY						
Nickel-Cadmium	6	GSC18-BH	18	12	9	
Long Life Lead	6	GSE18-BH	18	11	8	

*National Electrical Code Specification

New York City Approved

Outline and Dimensions

Dimensions are approximate and subject to change.



PS Series 6 and 12 Volt Square Shooter



The **PS Series** is architecturally designed to harmonize with a variety of interiors. Units are available as surface mount, semi-recessed mount or fully recessed mount. The Square Shooter has a 172 X 172 beam distribution pattern.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Approved use in the Commonwealth of Pennsylvania.

Sealed Maintenance-Free Batteries

- Nickel-Cadmium
- Long Life Lead
- Lead-Calcium

Standard Features

Reliability The PS Series comes complete with a 3-year full warranty, excluding lamps, pilot lights and fuses.

Unit Data Surface mount, semi-recessed units and fully recessed kits are constructed of an off-white, impact resistant, flame retardant, polymeric material. Fully recessed, "FRM" option units have an all metal back box. All models are supplied with a specular reflector and are designed to mount directly to a standard octagonal electric box. All furnished standard with one halogen lamp (6 volt 6 watt or 12 volt 8 watt).

PulsePlus Charger PulsePlus circuitry offers 120/277 Vac, 60 HZ, 0.3/0.15 Amp (other inputs available), fused output circuit(s), temperature compensated charger, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Unit Rating Chart

6 volt unit furnished with 6 watt Halogen lamp(s).
12 volt unit furnished with 8 watt Halogen lamp(s).

UNIT EQUIPMENT - NO REMOTE CAPABILITY						
Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	*Watts to 87 1/2% of rated battery voltage			
			1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.
Long Life Lead □	6	PSE9	9	7	-	-
Lead-Calcium	6	PSM9	9	6	-	-
UNIT EQUIPMENT - WITH REMOTE CAPABILITY						
Nickel-Cadmium	6	PSC18	18	12	9	6
	6	PSC18-2	18	12	9	6
	6	PSC25	25	18	12	9
	6	PSC25-2	25	18	12	9
	12	12PSC36	36	21	15	12
Long Life Lead □	12	12PSC36-2	36	21	15	12
	6	PSE18	18	11	8	6
	6	PSE18-2	18	11	8	6
	6	PSE36	36	24	17	13
	6	PSE36-2	36	24	17	13
	12	12PSE36	36	24	17	13
	12	12PSE36-2	36	24	17	13

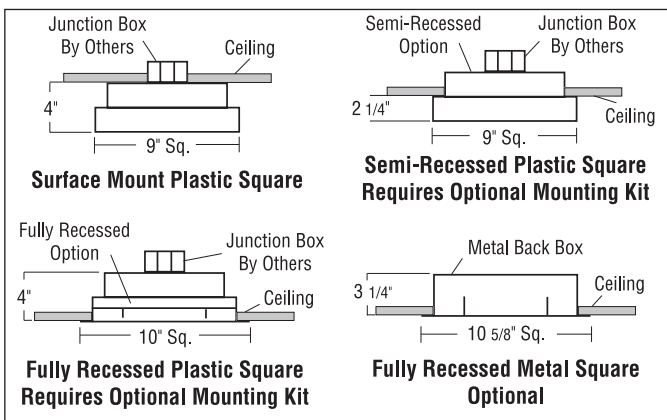
*National Electrical Code Specification

-2 indicates two lamp version

□ = Advanced Diagnostics Available

Outline and Dimensions

Dimensions are approximate and subject to change.



Optional Features

Description

Add Suffix

- Ammeter or Voltmeter (Choose only one)
- not available FR models.....-A* or -V*
- Advanced Diagnostics (Lead-Calcium only).....-AD
- Advanced Diagnostics (Non-Audible).....-ADNA
- Dual Lamps.-2
- Time Delay (Specify 5, 10 or 15 minutes).....-D1, D2 or D3**
- Non-standard input voltageSpecify
- Polycarbonate Lens-J
- Fully-Recessed all metal unit.....-FRM***

*Not available with Diagnostics options.

**Standard 15 minutes with AD/ADNA option.

***Not required when using the AD/ADNA option.

***Bar hangers included.

Accessories (order as a separate item)

- Semi-Recessed Kit (converts a surface mount unit to semi-recessed).....PS-SRKIT***
- Fully-Recessed Kit (converts a surface mount unit to fully-recessed).....PS-FRKIT***
- Wire Guard (Surface or Semi-Recessed).....WG1-E
- Wire Guard (Fully-Recessed).....WG11-E

How To Order (example)

For standard units without options only order Model Number

Options are added to units by listing suffix at end of model #

PS	C	18	-2	HB	- D1
Series	Battery Type	Watts	No. of Head	Lamp Option*	Option
	Nickel-Cadmium	for 90 min.	on unit	6V 8W Bi-Pin Halogen	Time Delay 5 min.

*see lamp data sheet for other lamp wattages.

NOTE: Includes standard lamp



Normally-on or Normally-off Decorative Ceiling Luminaire

Eversun Series

The **Eversun Series** combines architectural aesthetics and technical flexibility for both semi-recessed and surface-mounted ceiling lighting applications. One fixture that combines emergency mode operation with conventional, normally-on lighting.

Evaluated to UL 924 Standard
Complies with NEC and Life Safety Code

Sealed Maintenance-Free Battery

- Long Life, high temperature rated Nickel-Cadmium

Mounting
Unit can be used in semi-recessed and/or T-Bar, pendant and surface-mounted ceiling and wall-mount applications. Semi-recessed models come standard with a bar hanger kit.



Standard Features

Reliability
The Eversun Series comes complete with a 3-year full warranty, excluding lamps, pilot lights and fuses.

Unit Data
The twist and lock inner metal chassis allows for ease of installation and maintenance. A white opal diffuser constructed of high-impact injection-molded polycarbonate houses the non-obtrusive test switch and pilot light. Optional trim colors and trim assemblies are available. Unit comes standard with two, 11-watt (950 lumens) compact fluorescent lamps or optional one 28-watt 2D- compact fluorescent lamp. Normally-on or normally-off option. Unit is also available in AC-only for normal illumination.

Circuitry
The unit shall be rated 120Vac, 60Hz, 0.06A, 7W or 277Vac, 60Hz, 0.03A, 7W and evaluated to UL 924 standard. A new generation of solid state circuitry including battery charger and high frequency inverter to drive the compact fluorescent lamps. Failure (absence) of one lamp will not affect the function of the second lamp. The battery will support rated load for a minimum of 90 minutes.

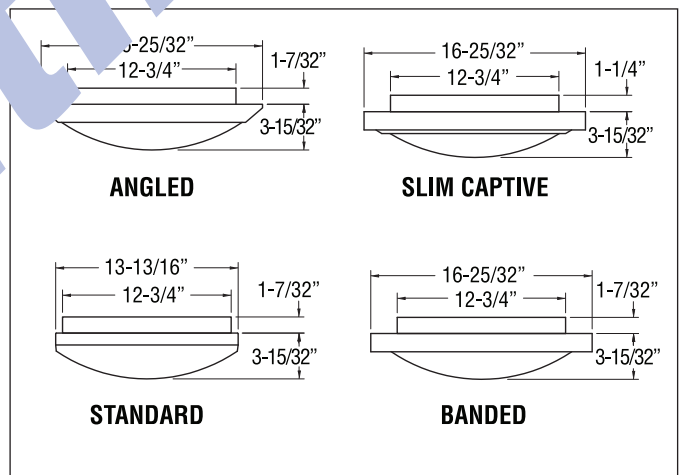
Self Diagnostics (Optional)
The unit will come complete with Eversun's diagnostics micro-controller board. The unit will test the battery one minute every 30 days, 30 minutes on the 6th month and the battery every 12 months.

Optional Features

Description	Add Suffix
Advanced Diagnostic micro-controller board	-ADNA
Damp location (90° to 104° F) (104° to 107° F) (107° to 109° F) (109° to 112° F) (112° to 114° F) (114° to 116° F) (116° to 118° F) (118° to 120° F) (120° to 122° F) (122° to 124° F) (124° to 126° F) (126° to 128° F) (128° to 130° F) (130° to 132° F) (132° to 134° F) (134° to 136° F) (136° to 138° F) (138° to 140° F) (140° to 142° F) (142° to 144° F) (144° to 146° F) (146° to 148° F) (148° to 150° F) (150° to 152° F) (152° to 154° F) (154° to 156° F) (156° to 158° F) (158° to 160° F) (160° to 162° F) (162° to 164° F) (164° to 166° F) (166° to 168° F) (168° to 170° F) (170° to 172° F) (172° to 174° F) (174° to 176° F) (176° to 178° F) (178° to 180° F) (180° to 182° F) (182° to 184° F) (184° to 186° F) (186° to 188° F) (188° to 190° F) (190° to 192° F) (192° to 194° F) (194° to 196° F) (196° to 198° F) (198° to 200° F) (200° to 202° F) (202° to 204° F) (204° to 206° F) (206° to 208° F) (208° to 210° F) (210° to 212° F) (212° to 214° F) (214° to 216° F) (216° to 218° F) (218° to 220° F) (220° to 222° F) (222° to 224° F) (224° to 226° F) (226° to 228° F) (228° to 230° F) (230° to 232° F) (232° to 234° F) (234° to 236° F) (236° to 238° F) (238° to 240° F) (240° to 242° F) (242° to 244° F) (244° to 246° F) (246° to 248° F) (248° to 250° F) (250° to 252° F) (252° to 254° F) (254° to 256° F) (256° to 258° F) (258° to 260° F) (260° to 262° F) (262° to 264° F) (264° to 266° F) (266° to 268° F) (268° to 270° F) (270° to 272° F) (272° to 274° F) (274° to 276° F) (276° to 278° F) (278° to 280° F) (280° to 282° F) (282° to 284° F) (284° to 286° F) (286° to 288° F) (288° to 290° F) (290° to 292° F) (292° to 294° F) (294° to 296° F) (296° to 298° F) (298° to 300° F)	-DL

Dimensions

Dimensions are approximate and subject to change.



How to Order (example)

W	M	SP	12	A	W	ADNA
Body Color	Unit Type	Emergency Back-up	Voltage/ Lamp Wattage	Trim Plate	Trim Color	Mounting Options
W=White B=Black	Blank=AC only M=normally on NM=normally off	Blank=AC only SP=Self-powered	11= 120Vac, 1 x 28 watt 2D 21= 277Vac, 1 x 28 watt 2D 12= 120Vac, 2 x 11 watt CFL 22= 277Vac, 2 x 11 watt CFL	Blank= no trim A= angled B= banded SC= slim captive	W= white B= black CH= polished chrome PB= polished brass	Blank= surface mount PD= pendant mount SR= semi-recessed mount* RT= semi-recessed T-Bar mount *All trims can be semi-recessed

Note: Semi-Recessed is NI (Non Insulation)
Normally-On = Maintained
Normally-Off = Non Maintained



The **Sharpeye Series** combines modern design with the strength of a weatherproof enclosure. Nema-3 rated for damp, wet and humid covered areas such as swimming pools, stairwells and garages.

Evaluated to UL 924 Standard

Complies with NEC Safety Code

Sealed Maintenance Free Battery

- Long Life, high temperature rated Nickel-Cadmium

Mounting

Wall or ceiling mounted. Direct mount on back of box allows for ease of installation.

Standard Features

Reliability

The Sharpeye Series comes complete with a 3-year full warranty, excluding lamps, pilot lights and fuses.

Unit Data

Base and eyelid are constructed of high impact thermoplastic. The clear prismatic diffuser is made of high-impact, UV stabilized polycarbonate. Non-obtrusive test switch and pilot light are concealed under the lens cover. Optional body and trim (eyelid) colors are available. Unit comes standard with two, 11-watt (950 lumens) compact fluorescent lamps or optional one 28-watt 2D- compact fluorescent lamp. Normally-on or normally-off option. Unit is also available in AC-only for normal illumination.

Circuitry

The unit shall be rated 120Vac, 60Hz, 0.06A, 7W or 277Vac, 60Hz, 0.03A, 7W and evaluated to UL 924 standard. A new generation, solid-state circuitry including battery charger and high frequency inverters to drive compact fluorescent lamps. Failure (absence) of one lamp shall not affect the function of the second lamp. The battery unit will supply the rated load for a minimum of 90 minutes.

Self Diagnostics (Option)

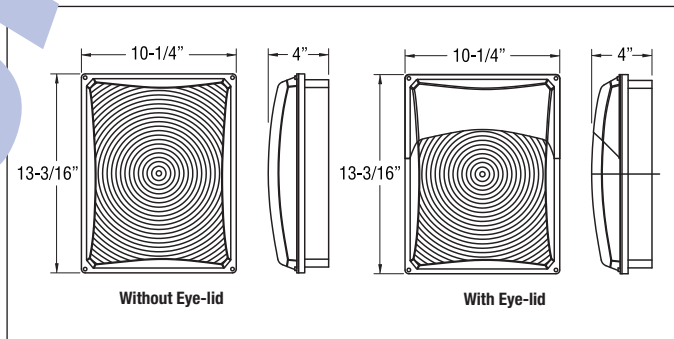
The unit will come complete with Sharpeye Series diagnostic controller board. The unit shall test for one minute every 30 days, 5 minutes on the 6th month and 90 minutes every 12 months.

Optional Features

Description	Add Suffix
Advanced Diagnostics (non-audible)	-ADNA
Clear Lens	-CL
Prismatic Lens	-OP
Temperature Compensation (+10° to +40°C), (50° to 104°F) (normal only)	-DL
Stamper-proof Screws	-TP

Line and Dimensions

Dimensions are approximate and subject to change.



How To Order (example)

W	SHA	M	12	A	ADNA
Body Color	Series	Unit Type	Voltage/ Lamp Wattage	Trim (Eye-lid)	Options
W=White	SHA=Sharpeye	Blank=AC only	11= 120Vac, 1 x 28 watt 2D	Blank= no eye-lid	See optional features
B=Black		M=normal	21= 277Vac, 1 x 28 watt 2D	*W= white eye-lid cover	
G=Gray		NM=normal	12= 120Vac, 2 x 11 watt CFL	*B= black eye-lid cover	
			22= 277Vac, 2 x 11 watt CFL	*G= gray eye-lid cover	
				*Eye-lid is suggested for wall mount applications	

Note: Maintained = Normally-On
Non Maintained = Normally-Off

The **Everlast Series** is a new generation of architectural lighting fixtures combining emergency mode operation with conventional, normally on lighting. Decorative yet rugged, the Everlast Series is ideally suited for high-abuse and security areas.

Evaluated to UL 924 Standard

Complies with NEC and Life Safety Code

Sealed Maintenance-Free Battery

- Long Life, high temperature rated Nickel-Cadmium

Mounting

Surface mount (standard), recessed mount and recessed T-bar mount
Direct mount on junction box allows for ease of installation.



Standard Features

Reliability

The Everlast Series comes complete with a 3-year full warranty (excluding lamps, pilot lights and fuses).

Unit Data

Construction consists of a translucent polycarbonate diffuser mounted on a 20-gauge steel enclosure. Non-obtrusive test switch and pilot light are concealed under the diffuser. Optional body color is available. The unit has impressive performance levels for center-to-center lighting. Unit comes standard with two, 11-watt (950 lumens) compact fluorescent lamps or optional one 28-watt 2D- compact fluorescent lamp. Normally-on or normally-off option. Unit is also available in AC for normal illumination.

Circuitry

The unit shall be rated 120Vac, 60Hz, 0.06A, 7W or 277Vac, 60Hz, 0.03A, 7W and evaluated to UL 924 standard. A new generation of solid-state circuitry including battery charger and high frequency inverters to drive the compact fluorescent lamps. Failure (absence) of one lamp shall not affect the function of the second lamp. The battery shall supply the rated load for a minimum of 90 minutes.

Self Diagnostics (Optional)

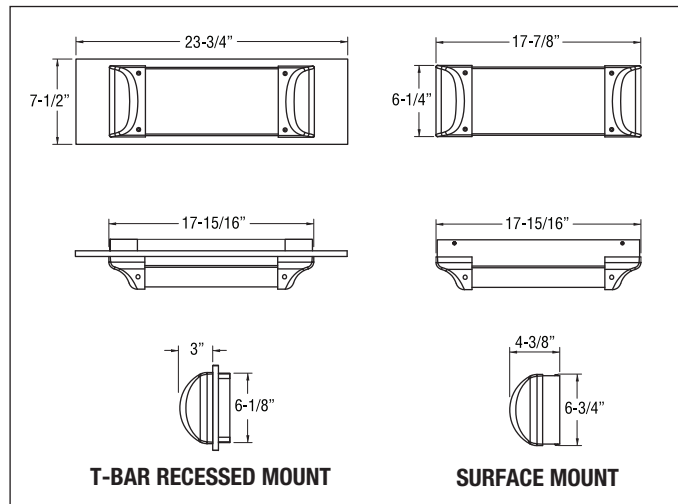
The unit will come complete with Everlast Series diagnostics micro-controller board. The unit shall test for operation every 30 days, 30 minutes on the 6th month and 90 minutes every 12 months.

Optional Features

Description	Add Suffix
Surface Mount	Blank
Recessed Mount	-RM
Recessed T-Bar Mount	-RT
Advanced Diagnostics, Non-Audible	-ADNA
Damp location (+10° to +40°C), (50° to 104°F) normally-off only	-DL

Outline and Dimensions

Dimensions are approximate and subject to change.



How To Order (Example)

W	Series	M	SP	12	ADNA
Body Color		Unit Type	Emergency Back-up	Voltage/ Lamp Wattage	Mounting Options
W=White		Blank=AC only	Blank=AC only	11=120Vac, 1 x 28 watt 2D	Blank=surface mount
B=Black		NI=normally on	SP=Self-powered	21=277Vac, 1 x 28 watt 2D	RM=recessed mount
G=Gray		M=normally off		12=120Vac, 2 x 11 watt CFL	RT=recessed mount T-Bar
Other colors available, please consult factory.				22=277Vac, 2 x 11 watt CFL	
					Options See optional features

Note: Recessed is NI (Non Insulation)
Maintained = Normally-On
Non Maintained = Normally-Off



6, 12, 24 Volt Units

ECS-2 Series (Escort) - Discontinued	22
EC2 and ECX-2 Series (Escort)	23
ECC and ECM Series (Escort)	24
Provider PRO-2/PRO-3 Series	25
DLM-2 Series (Escort)	26
EL-2SQ Series (Escort II)	27
NEW EL-2MR Series (Escort II)	28
ME Series	29
NEW JC Series	30
NEW JA Series	31
JS Series	32
LP Series	33
LSE & LC Series	34
LS Series	35
NV & ELC Series - Discontinued	36
24LS & 24LC Series	37
24NV & 24ELC Series - Discontinued	38



The **ECS-2** combines two decorative ESCORT heads with a sturdy low profile housing. An attractive and highly versatile emergency light unit that will satisfy a variety of commercial and architectural applications.

With a mounting footprint of only 6 5/16" X 8 1/8", the **ECS-2 Series** is the perfect solution for any application with space restrictions.

UL Listed for use in Damp Locations

UL Listed

Complies with the National Electrical Safety Code and OSHA.

Sealed Maintenance Free Batteries

- Lead-Calcium

Standard Features

Reliability

The ECS-2 has a 3-year full warranty (excluding lamps and fuses).

Unit Data

The housing/heads are constructed of high impact, UL 94, 5VA flame classification thermoplastic. The unit shall resist denting, peeling, scratching and corrosion. All glass, 6-volt high intensity wedge base lamps supply generous amounts of emergency lighting from fully adjustable heads.

Reliable Integrated Circuitry

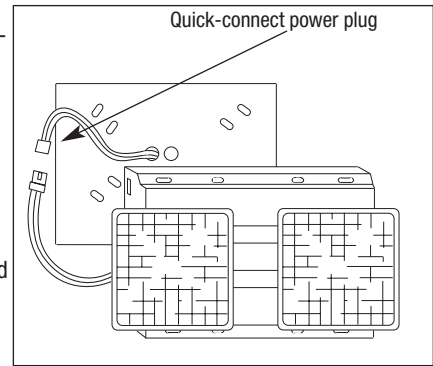
Integrated circuitry offers a 120/277 Vac., 60 Hz, 0.1/0.05 Amp input standard, automatic charging/instantaneous transfer, test switch, long life LED AC charge monitor light.

The charger shall utilize a computer tested integrated circuit which senses the battery in relation to its temperature, state of charge and input voltage fluctuations. The charger is current limited, temperature compensated, short-circuit and reverse polarity protected. Electrical features include low voltage battery disconnect, Brownout protection and Battery lockout.

The Performance

Installation is made easy by a quick-connect power battery lockout feature.

The ECS-2 has a metal battery lockout K/O pattern for attachment to a standard J box. A quick-connect plug is provided to make wiring and mounting a simple plug-in operation.



The ECS-2's battery lockout feature is an AC activated load switch that prevents the battery from discharging until the unit is energized with AC power. This allows the contractor to install the unit and connect the battery in one convenient operation.

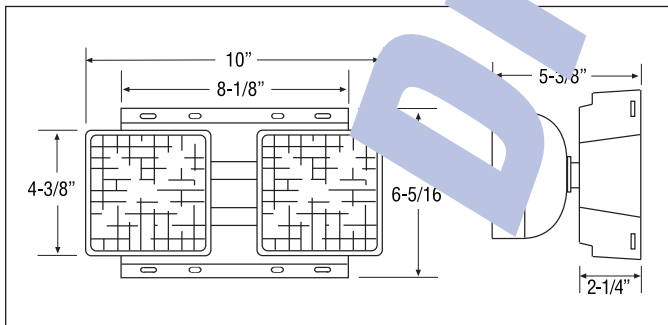
Optional Features

Description

Halogen Lamp (6V6W)
Damp Location
Accessories (order as a separate item)	
Wire Guard

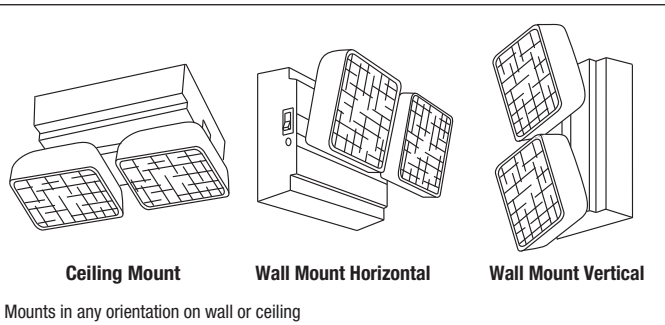
Outline and Dimensions

Dimensions are approximate and subject to change.



How To Order

	Model No
Standard ECS-2 unit	ECS-2-EG
ECS-2 unit with 6 V 6W halogen lamp	ECS-2(HA)
Damp Location Listed ECS-2 unit	ECS-2-DL





6 Volt EC-2 and ECX-2 Series

THE ESCORT SERIES
 • ON THE SPEC
 • ON THE JOB
 • ON THE SHELF

The **EC-2** and **ECX-2 Series** offers complete flexibility in an emergency lighting unit. Its universal mounting pattern, keyhole slots and conduit entry provide alternate mounting capability. The housing and back-plate snap together for ease of installation.

UL Listed

Complies with NEC, Life Safety Code and OSHA.

Listed for use in Damp Locations

Sealed Maintenance-Free Batteries

- Lead-Calcium

Standard Features

Reliability

The EC-2 (12W max.) and ECX-2 (24W max.) Series has a 3-year full warranty, excluding lamps and fuses.

Unit Data

The EC-2 and ECX-2 are completely self-contained. The housing and heads are constructed of high impact, UL 94, 5VA flame classification, off-white thermoplastic. It will resist denting, peeling, scratching and corrosion. Heads have high intensity incandescent lamps mounted in polished reflectors.

Reliable Integrated Circuitry:

Integrated circuitry offers 120/277 Vac 60Hz, 0.3/0.15 Amp standard operation, LED pilot light, automatic charging, instantaneous transfer, temperature compensated charger, low voltage battery disconnect, brownout protection, lockout (automatic battery connect) and reverse polarity protection.

Optional Features

Black housing	B	Add Prefix
		Add Suffix
Advanced diagnostics (Lead-Calcium only)	-AD	
Advanced diagnostics non-audible	-ADNA	
Nickel-Cadmium battery (AD/ADNA units only)	-N	
Time delay (specify 5, 10 or 15 minutes)	-D1, D2 or D3**	
Damp location listed (AD units only)	-DL	

**Standard 15 minutes with AD/ADNA option.
 **Not required with the AD/ADNA option.

Unit Rating Chart

Furnished with two 5.4 watt high intensity incandescent lamps.

UNIT EQUIPMENT				
Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	Watts to 90 minutes	Remote Watts
Lead-Calcium	6	EC-2	12	-
Lead-Calcium	6	ECX-2	12	12
Lead-Calcium	6	EC-2-AD	12	-
Lead-Calcium	6	ECX-2-AD	12	12
Nickel-Calcium	6	EC-2-AD-N	12	-
Nickel-Calcium	6	ECX-2-AD-N	12	12

ECX-2 SERIES - UNIT EQUIPMENT WITH REMOTE CAPABILITY				
Sealed Maintenance-Free Battery Types	*Watts to 87 1/2% of rated battery voltage			
	11/2 hrs.	2hrs.	3hrs.	4 hrs.
Lead-Calcium	24	15	-	-
Nickel-Cadmium **	24	18	12	-

* National Electrical Code Specification

** Only available with Advanced Diagnostic



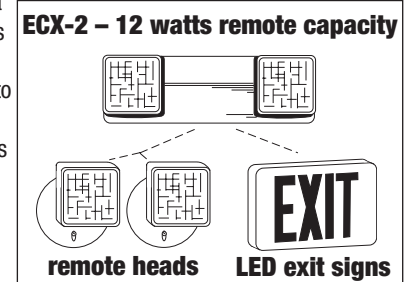
Flexibility in an emergency light unit

• On the specification...

Its contemporary design allows you to coordinate the aesthetics of emergency specifications with three matching models... an emergency unit... a remote head... and an emergency mini-system (page 67)

• On the job...

Changes on the job are never a problem with the EC Series. It's Modular design allows you to field upgrade the basic model to a master unit for powering matching remote lighting heads or AC/DC exit signs, including the new LED even illumination models.

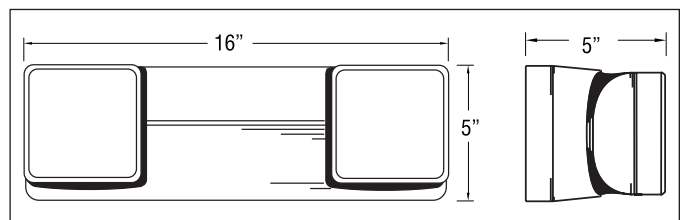


• On the shelf...

The modular design of the EC Series gives you a contemporary family of decorative emergency lighting units, matching exit signs and remotes.

Outline and Dimensions

Dimensions are approximate and subject to change.



How To Order EC Series Units

	Model #
Standard unit.....	EC-2
Remote capability unit (12 watts remote).....	ECX-2
EC-2 unit with 6 volt, 6 watt halogen lamps	EC-2 HA
ECX-2 unit with 6 volt, 6 watt halogen lamps	ECX-2 HA
ECX-2 unit with 6 volt, 8 watt halogen lamps	ECX-2 HB
ECX-2 unit with 6 volt, 12 watt halogen lamps.....	ECX-2 HD

How To Order Matching Escort Series Remotes (page 88)

6 volt 5.4 watt incandescent lamp remote head	EF23 (ZP)
6 volt 9 watt incandescent lamp remote head	EF23 (ZD)
6 volt, 6 watt halogen lamp remote head.....	EF23 (HA)
6 volt, 8 watt halogen lamp remote head.....	EF23 (HB)
6 volt, 12 watt halogen lamp remote head	EF23 (HD)
LED 6, 12 and 24 volt DC remote exit sign 120/277 AC	ECL4RDC
6 volt 10.8 watts remote DLM-2 unit (discontinued)	6DLM-10

ECC and ECM Series 6 and 12 Volt



Standard Features

Reliability

The EC Series comes complete with a 3-year full warranty, excluding lamps and fuses.

Unit Data

Constructed of 20 gauge steel with an off-white, baked enamel finish. Hinged front door. Furnished standard with two front mounted EF-23 heads with one 9 watt lamp per head.

PulsePlus Charger

PulsePlus circuitry offers 120/277 Vac 60 Hz., 0.3/0.15 Amp (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Black Housing and Heads B
 Add Prefix

Ammeter OR Voltmeter (S cabinet units, choose only one) -A* or -V*
 Advanced Diagnostics (Lead-Calcium only) -AD
 Advanced Diagnostics, non-audible -ADNA
 Lamp Disconnect Switch -K
 Time Delay (Selectable 5, 10 or 15 minutes) -D1, D2 or D3**

*Not available with AD/ADNA option.

**Not required when using the AD/ADNA option.

**Standard 15 minutes with AD/ADNA option.

Accessories (order as a separate item)

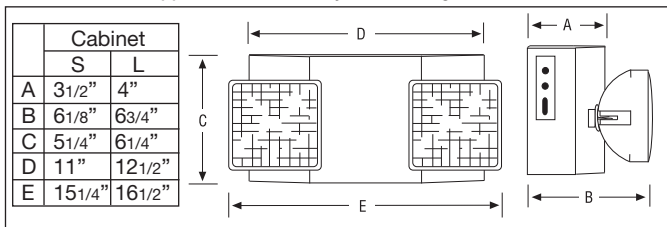
Mounting Bracket (S cabinet only) BJ
 Wire Guard WG10-E
 Clear Polycarbonate Vandal Resistant Shield VRS-BB***
 Clear NEMA 4X Polycarbonate Vandal Resistant Shield VRSBB-4X***
 ***S cabinet only, order on separate line.

BI-PIN Halogen Lamps (do not exceed battery capacity)..Add Suffix

6 volt 6 watt halogen lamp, (one per head) HA
 6 volt 8 watt halogen lamp, (one per head) HB
 6 volt 12 watt halogen lamp, (one per head) HD
 12 volt 8 watt halogen lamp, (one per head) HF
 12 volt 12 watt halogen lamp, (one per head) HG

Outline and Dimensions

Dimensions are approximate and subject to change.



The **ECC** and **ECM Series** offers a contemporary metal housing with decorative front mounted heads. Your design options are broadened with 6 or 12 volt units available from 18 to 54 watts in either Lead-Calcium or Nickel-Cadmium sealed maintenance-free batteries.

Your flexibility extends into our entire line of matching Escort products, including a decorative thermoplastic exit sign and matching remote heads.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Approved for use in the Commonwealth of Pennsylvania and New York City.

Sealed Maintenance-Free Batteries

- Nickel-Cadmium
- Lead-Calcium

Unit Rating Chart

Furnished standard with two 9 watt High Intensity Incandescent lamps.

Sealed Maintenance-Free Battery Types	D.C. Voltage	Order Model No.	*Watts to 87 1/2% of rated battery voltage				Cabinet Size
			1 1/2 hrs	2 hrs	3 hrs	4 hrs	
Nickel-Cadmium	6	ECC18-2**	18	12	-	-	S
		ECC25-2**	25	18	12	9	S
	12	12ECC36-2**	36	21	15	12	S
		12ECC50-2	50	36	25	18	S
Lead-Calcium	6	ECM18-2	18	12	10	7	S
		ECM27-2	27	18	14	10	S
	6	ECM36-2	36	24	20	14	S
		ECM54-2	54	37	28	21	L
	12	12ECM36-2	36	25	20	14	S
		12ECM54-2	54	37	28	21	L

*National Electrical Code Specification.

□ = Advanced Diagnostics Available

** CSA NRTL UL924 Listed.

How To Order Matching Escort Series Remotes

(Page 90)

Description

Description	Model #
6 volt 5.4 watt incandescent lamp remote head	EF23 (ZP)
6 volt 9 watt incandescent lamp remote head	EF23 (ZD)
12 volt 9 watt incandescent lamp remote head	EF23 (ZF)
12 volt 12 watt incandescent lamp remote head	EF23 (ZG)
6 volt, 6 watt halogen lamp remote head	EF23 (HA)
6 volt, 8 watt halogen lamp remote head	EF23 (HB)
6 volt, 12 watt halogen lamp remote head	EF23 (HD)
12 volt, 8 watt halogen lamp remote head	EF23 (HF)
12 volt, 12 watt halogen lamp remote head	EF23 (HG)
LED 6, 12 and 24 volt DC remote exit sign 120/277 AC	ECL4RDC
6 volt 10.8 watts remote DLM-2 unit	6DLM-10
6 volt 14.4 watts remote DLM-2 unit	6DLM-14

How To Order (example)

For standard units without options only order Model Number

Options are added to units by listing suffix at end of model #

EC	M	18	- 2	HB	- D1
Series	Battery Type	Watts	No. of Head	Lamp Option*	Option
	Nickel-Cadmium	for 90 min.	on unit	6V 8W Bi-Pin Halogen	Time Delay

*see lamp data sheet for other lamp wattages.

NOTE: Includes standard lamp

The **Provider Series** is the proven look in emergency lighting design. Its sleek low profile thermoplastic body combined with a transparent polycarbonate lamp shield to make a contemporary style that's just right for today's aesthetic demands. With a standard white finish, the Provider will compliment a variety of interiors including offices, theaters, restaurants and shopping malls. Provider is versatile too, its body, measuring only 11" X 5" can be mounted in any orientation on wall or ceiling.

UL Listed

Complies with NEC, Life Safety Code and OSHA.

UL Listed for use in Damp Locations

Sealed Maintenance-Free Batteries

- Lead-Calcium



Standard Features

Reliability

The Provider Series comes complete with a 3-year full warranty, (excluding lamps, pilot lights and fuses).

Unit Data

The Provider, constructed of thermoplastic, is completely self-contained. A polycarbonate shield protects the fully adjustable self-locking heads. The 6 volt high intensity tungsten (HIT) lamps and mirrored reflectors supply generous amounts of emergency lighting.

Reliable Integrated Circuitry:

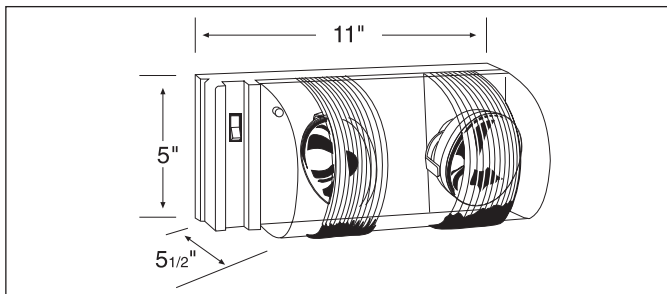
Integrated circuitry offers 120/277 Vac 60 Hz standard operation, LED pilot light, rocker type test switch, temperature compensated, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Advanced Diagnostics (optional)

Enjoy the peace of mind provided by Emergi-Lite's advanced diagnostic circuitry. The AD circuit monitors every critical function of the unit and provides an audible and visual indicator when a fault is detected (non-audible versions available).

Outline and Dimensions

Dimensions are approximate and subject to change.

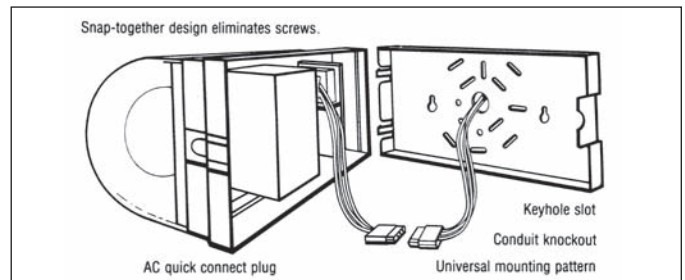


Unit Rating Chart

Each unit furnished with one HIT lamp per head.

PROVIDER BATTERY UNIT						
Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	*Watts to 87 % of rated battery voltage			
			1 1/2 hrs	2 hrs	3 hrs	4 hrs
Lead-Calcium	6	PRO-2	12	9.5	-	-
	6	PRO-3	18	12	10	7

Fast and Easy Installation



Provider's AC quick-connect plug, battery lockout feature and snap-together design make installation fast and easy.

With the AC quick-connect plug, contractors simply make the AC connection to the plug, mount the backplate and plug in the unit.

The battery lockout feature is an AC activated load switch that prevents the batteries from discharging until the unit is energized with AC power. This allows the contractor to install the Provider and connect the batteries in one convenient operation.

A universal mounting pattern keyhole slots and a conduit knock-out provide alternate mounting methods.

Optional Features

Description	Add Suffix
Black Housing	-B
Voltmeter	-VM**
Vandal Resistant Screws	-VR
Advanced Diagnostics	-AD
Advanced Diagnostics, Non-Audible	-ADNA
Damp Location	-DL
Unit with cord set	-C*

* Standard cord is 3 ft. custom lengths available.

** Not available with AD/ADNA option.

Accessories (order as a separate item)

Replacement lamps 570.0012-E

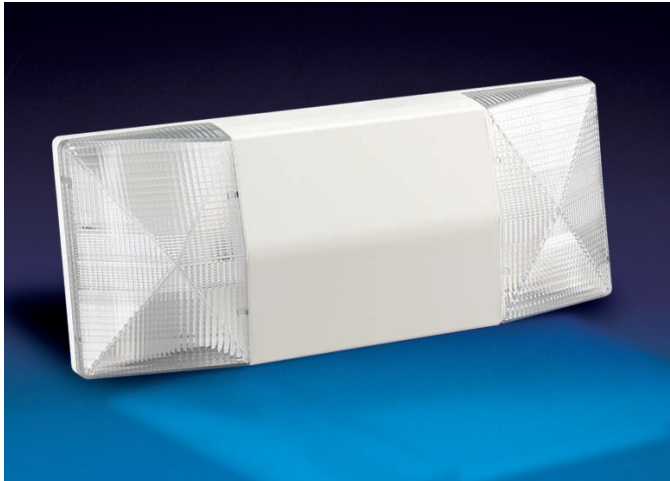
Provider remote lighting fixtures

(Requires an external DC source) (Page 83)

6 volt 10.8 total unit wattage6PRO-10
 12 volt 18 total unit wattage12PRO-2(ZN)
 24 volt 18 total unit wattage24PRO-2(ZN)

How To Order

StandardPRO-2
 with remote capacity / 11 wattsPRO-3



A molded in strut style test switch and two flush mounted fresnel lenses add a contemporary, elegant style to the **DLM-2**. Its compact design, measuring only 5 inches by 12 inches, has a lightly textured, off-white finish that will blend well with a variety of architectural surfaces. No screws or other mounting hardware is visible. It can be mounted in any orientation on walls or ceilings.

Listed to UL924 Standard

Complies with NEC, Life Safety Code and OSHA.

Sealed Maintenance-Free Batteries

- Lead-Calcium

Standard Features

Reliability

The **DLM-2 Series** comes complete with a 3-year full warranty (excluding lamps, pilot lamps and fuses).

Unit Data

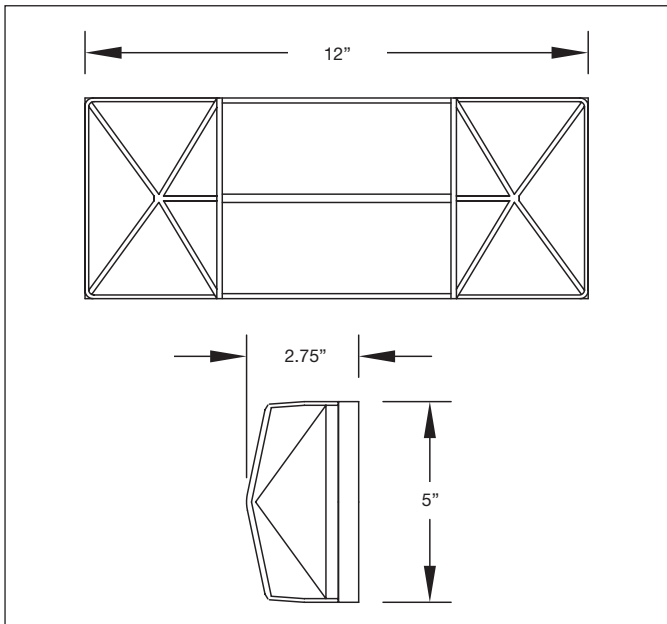
The **DLM-2** is completely self-contained. Constructed of high impact, UL recognized 94V, 5VA thermoplastic. Unit will resist denting, peeling, scratching and corrosion. Lamps are a 6V high intensity all-glass wedge base and the transparent lens is constructed of polycarbonate.

Reliable Integrated Circuitry

Integrated circuitry offers a 120/277 Vac 0.08/0.04 Amp standard, automatic charging, instantaneous transfer, test switch, long life LED AC charge monitor light, temperature compensated charger, short-circuit proof and reverse polarity protected, Low Battery Voltage Disconnect, Brownout protection, and lockout (automatic battery connection).

Outline and Dimensions

Dimensions are approximate and subject to change.

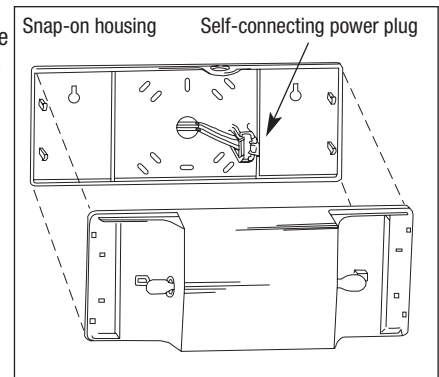


The Performance

In both mechanical and electrical performance, the **DLM-2** is a superior value in its class.

Its tough thermoplastic body and flush mounted heads will not dent, peel or corrode. Snap together lens and body and self-connecting power plug make installation quick and easy.

Electrical performance is assured by a 6 volt maintenance-free Lead-Calcium recombination battery and a solid state charger which includes premium features such as: Lockout, Temperature compensation and Low voltage disconnect. Selectable 120/277 standard operation.



Accessories (order as a separate item)

Wire Guard.....WG13-E

How To Order

Standard DLM-2 unitDLM-2

Model



The **EL-2SQ Series** may be wall or ceiling mounted. Add the fact that the EL-2SQ Series is standard with 11 watts remote capacity, damp location listed installs in minutes and you have a very versatile job site solution for emergency lighting. Thermoplastic Emergency Lighting unit with adjustable lighting heads.

UL Listed

Complies with NEC, Life Safety Code and OSHA.

Damp location listing is standard in all models.

Sealed Maintenance Free Batteries

- Lead-Calcium



Standard Features

Reliability

- The EscortII EL-2SQ series has a three-year full warranty (excluding lamps and fuses).

Housing

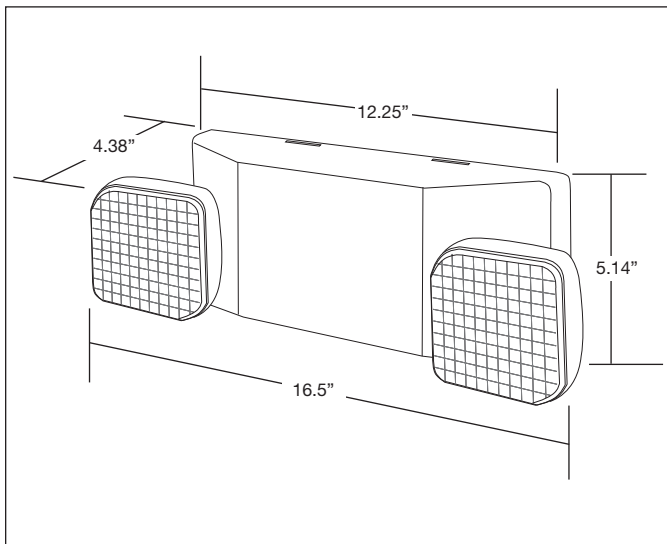
- Injection-molded UV stabilized thermoplastic housing and backplate
- UL 94, 5VA flame rating
- Innovative, snap-together design allows for fast installation
- Two fully adjustable glare-free light heads for egress light

Mounting

- Wall or ceiling
- Universal knock-out pattern on the backplate allows for junction-box mounting.

Outline and Dimensions

Dimensions are approximate and subject to change.



Electrical Features

Electrical

- 120/277VAC dual voltage operation
- LED indicator light and push button test switch
- Remote capacity - may power additional remote heads (up to 6V 11W).
- Low voltage battery disconnect
- All models are damp location listed

Lamps

- 2 x 6V 5.4 watts DC T5 wedge base lamps for emergency mode

Battery

- Sealed maintenance-free Lead-Calcium battery designed to power 11 watts remote load or extended unit run time.

Optional Features

Description	Add Suffix
Remote Capacity (in watts)*	R

Accessories (order as a separate item)

Replacement battery.....	860.0018-E
Replacement lamp (standard)	570.0012-E
Vandal shield	VRS.BB
Vandal shield (NEMA 4X).....	VRSBB.4X
Wire Guard (heads in any position).....	WG10-E

How To Order

EL	2SQ	R
Series	Light Heads	Capacity Indicator
Self-powered	Standard Lamp 6V 5.4W Incandescent	Blank = no remote capacity R = 11 watts remote capacity*

* Do not exceed rated unit capacity.



The **EL-2MRS Series** is perfect for use where style and design is required in an economical package. The compact design, measuring only 5-1/2" by 12-1/8", will accommodate the space restrictions often encountered. Six volt, MR16, lamps are powered by a maintenance-free, Lead-Calcium battery to provide a clean, adequate amount of light. The snap-together thermoplastic housing facilitates mounting in any orientation.

UL Listed

Complies with NEC, Life Safety Code and OSHA.

Damp location listing is standard

Sealed maintenance-free batteries

- Lead-Calcium

Standard Features

Reliability

The **EL-2MRS Series** comes complete with a 3-year full warranty (Excluding lamps and fuses).

Unit Data

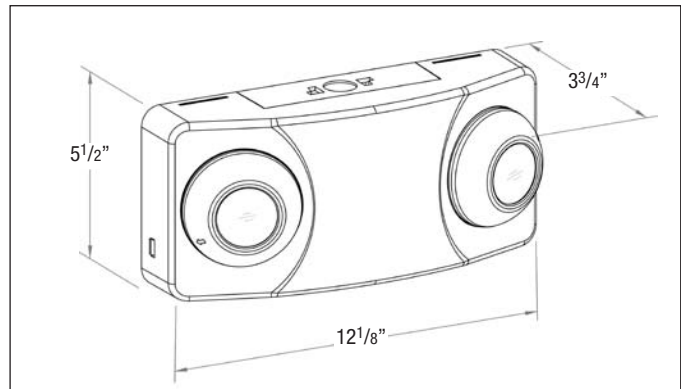
The **EL-2MRS** is completely self-contained. Constructed of high impact, UL recognized, 94,5VA thermoplastic. Six volt, MR16 halogen lamps, are housed in adjustable, gimbal-type, assemblies. All units are damp location listed.

Reliable Integrated Circuitry

The **EL-2MRS** Integrated Circuitry offers a 120/277 Vac 0.1/0.05 Amp input as standard. As well as automatic charging, instantaneous transfer, test switch, long-life LED AC charge monitor, temperature compensated charger, short circuit protection, low battery voltage disconnect, bownout protection, and lockout (automatic battery detection during installation).

Outline and Dimensions

Dimensions are approximate and subject to change



Accessories (order as a separate item)

- Replacement MR16 lamp 6V 5W.....580.0072
- Wire GuardWG-13

How To Order

EL-	2MRS	B
Series	Lamp Option	Colour
	Light Heads	Black
	6V5W MR16	
	Halogen	



6 Volt Thermoplastic Lighting Unit **ME Series**

The **ME Series** is an excellent combination of economy and quality —the best offered in the industry. This unit is compact, lightweight, and corrosion resistant. This series is furnished with our finest fully tested charger — the most reliable offered by any manufacturer.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Approved for use in the Commonwealth of Pennsylvania

Sealed Maintenance-Free Batteries

- Nickel-Cadmium • Long Life Lead • Lead-Calcium

Standard Features

Reliability

The **ME Series** comes complete with a 3-year full warranty (excluding lamps and fuses).

Unit Data

ME's off-white thermoplastic cabinet meets UL 94, 5VA flame classification. This unit is lightweight, compact and corrosion resistant. Lighting heads are programmable for either top or side mounting. Universal mounting pattern keyhole slots and conduit knockout.

PulsePlus Charger

PulsePlus circuitry offers 120/277 Vac, 60 Hz., 0.3/0.15 Amp (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

Black	B	Add Prefix
		Add Suffix
Ammeter or Voltmeter (Choose only one)	-A OR -V	
Time Delay (Specify 5, 10 or 15 minutes)	-D1, D2, D3	
Cord Set - 120 Volt	-C*	
Cord Set - (TL 277 Volt)	-E*	
EF18 Lamp Heads	-EF18	

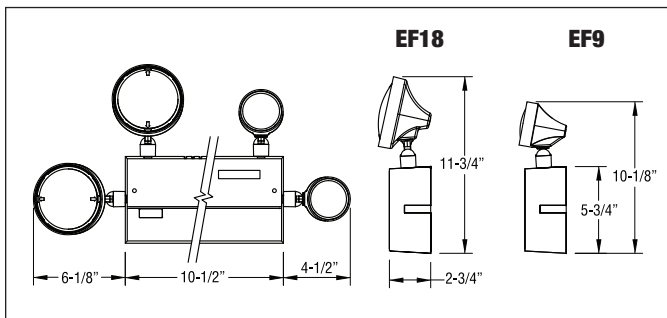
* Standard cord is 3 ft. (custom lengths available).

Accessories (order as a separate item)

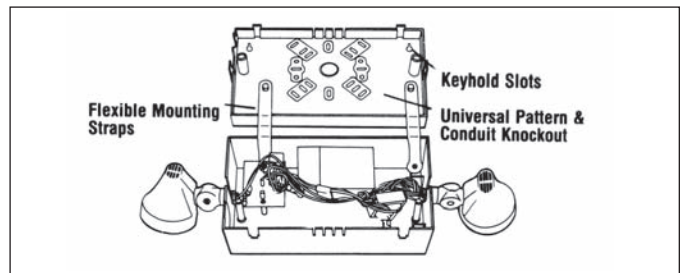
Wire Guard (Top mounted heads)	WG1-E
Wire Guard (Side mounted EF-9 heads)	WG10-E
Wire Guard (Side mounted EF-18 heads)	WG4-E
Clear Polycarbonate Vandal Resistant Shield	VRS-BB
Clear NEMA 4X Polycarbonate Vandal Resistant Shield	VRS-BB4X

Outline and Dimensions

Dimensions are approximate and subject to change.



Quick and Easy Installation



Installation is made easy by the two flexible hanger straps and the battery lockout feature.

The flexible hanger straps are a third hand for the contractor. After the mounting backplate is secured to an outlet box, the ME is attached to the backplate using the hanger straps, thus freeing the contractor's hands to make the wire connections.

The battery lockout feature is an AC activated load switch that prevents the battery from discharging until the unit is energized with AC power. This allows the contractor to install the ME unit and connect the battery in one convenient operation.

A universal mounting pattern keyhole slots and conduit knock out provide alternate mounting methods.

Unit Rating Chart

Each unit furnished with two 9 watt High Intensity Incandescent lamp.

UNIT EQUIPMENT - WITH REMOTE CAPABILITY						
Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	*Watts to 87 1/2% of rated battery voltage			
			1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.
Nickel-Cadmium	6	ME-6N	18	12	9	6
Long Life Lead	6	ME-5N	18	11	8	6
Lead-Calcium	6	ME-2N	12	-	-	-
	6	ME-4N	18	12	10	7

*National Electrical Code Specification

How To Order (example)

For standard units without options only order Model Number

Options are added to units by listing suffix at end of model #

ME-4N	- ZD	- D1
Series	Lamp Option*	Option
	6V 9W Bi-Pin Halogen	Time Delay

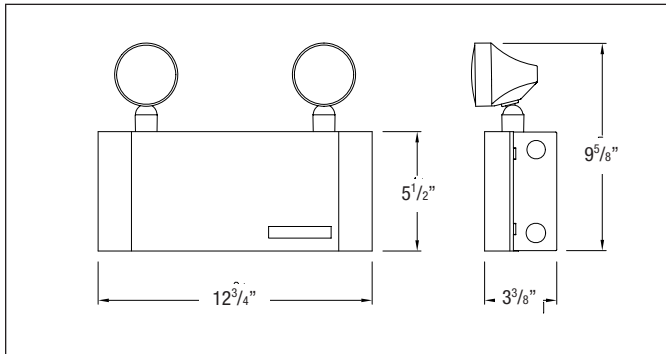
*see lamp data sheet for other lamp wattages.

NOTE: Includes standard lamp



Outline and Dimensions

Dimensions are approximate and subject to change



Unit Rating

Furnished standard with two MR16 6V6W

Battery Type	Volts	Model #	Watts to 87.5% of rated battery voltage*			
			1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.
Lead-Calcium	6	JCM	18	12	-	-
		JCM20	20	15	12	-
		JCM27	27	18	15	-
		JCM30	30	20	18	-
		JCM36	36	27	20	12
		JCM40	40	30	24	15
	12	12JCM36	36	27	20	12
		12JCM40	40	30	24	15
Nickel-Cadmium	6	JCC20	20	18	12	-
	12	12JCC36	36	24	15	12
		12JCC50	50	36	24	18

* National Electrical Code Specification

How To Order (example)

Color	JCM18	-2	10	MI	-AD
Blank= Off white enamel finish B= Black enamel finish	D.C. Voltage/Capacity JCM18= 6V - 18W, lead calcium JCM20= 6V - 20W, lead calcium JCM27= 6V - 27W, lead calcium JCM30= 6V - 30W, lead calcium JCM36= 6V - 36W, lead calcium JCM40= 6V - 40W, lead calcium* 12JCM36= 12V - 36W, lead calcium 12JCM40= 12V - 40W, lead calcium JCC20= 6V - 20W, Ni-cad 12JCC36= 12V - 36W, Ni-cad 12JCC50= 12V - 50W, Ni-cad * Not available with AD/ADNA Option	Number of heads -0= no heads -2= Two Heads	Head Style 10= EF10 mini plastic MR16	Lamp Type MH= 6V5W MI= 6V6W MJ= 6V10W MK= 12V12W MA= 12V20W MW= 12V20W High Output	Options -AD= advanced diagnostics -ADNA= advanced diagnostics

6 or 12 Volts Emergency

Unit Sealed Maintenance-Free Lead Calcium or Nickel-Cadmium Battery

UL Listed

The **Emergi-Lite JC Series** emergency battery unit incorporates performance and labor-saving features, normally found only in higher capacity units, in a economical compact housing design. The **JC Series** is ideally suited for commercial applications where space, performance and ease of installation are required.

Standard Features

Reliability

The **JC Series** has a three year full warranty (excluding lamps and fuses).

Unit Data

Compact steel cabinet with corrosion-resistant undercoating – standard color is “mist white”, black available as an option. The **JC Series** has rear keyhole mounting slots and is designed to mount directly to any standard 4” junction box.

Lamp

Standard unit furnished with two EF10 heads constructed of impact resistant, flame retardant thermoplastic heads complete with 6-watt, MR16 halogen lamps. Also available up to 20W(MW) high output illumination.

Solid State Charger

- Automatic, temperature compensated type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.
- Optional Advanced Diagnostics comes with a micro controller based pulse type charger.

Power Requirements: 120/277Vac 60Hz, 0.3/0.15 Amp.

Optional Features

- Add Prefix
Unit color in black-B
- Add Suffix
Advanced Diagnostics-AD
Advanced Diagnostics, Non-Audible.....-ADNA

Power Consumption

Model #	AC Input	Maximum	
		Input Current	Input Power
JC	120 Vac	0.20 A	24 W
	277 Vac	0.08 A	24 W
12JC	120 Vac	0.24 A	30 W
	277 Vac	0.12 A	30 W



6 and 12 Volts Steel Emergency Unit

JA Series

6 and 12 Volts Steel Emergency Unit Sealed Maintenance-Free Lead Calcium or Nickel-Cadmium Battery UL Listed

The decorative **Emergi-lite JA Series** combine a contemporary design with state-of-the-art path of egress illumination. Designed to meet the needs of the interior design professionals while providing an impressive performance in a compact housing.

Standard Features

Reliability

The **JA Series** has a three-year full warranty (excluding lamps and fuses).

Unit Data

The **Emergi-Lite JA Series** has a metal cabinet made of steel with anti-corrosion undercoating and a lower compartment containing two emergency heads with adjustable swivels and long-life MR-16 halogen lamps.

Lamp

The emergency heads are installed at the bottom of the unit, providing an illumination in any downwards direction and will require no tool for adjusting or aiming. The emergency heads are protected by a shock-absorbent, transparent polycarbonate cover. The cover will be fixed on the equipment cabinet with two vertical screws. The standard lamp will be 6V or 12V MR16 halogen lamp. Also available up to 20W(MW) high output illumination.

Solid State Charger

- Automatic, temperature compensated type charger.
- High capacity, automatic, dust-tight instantaneous transfer relay.
- Low voltage disconnect prevents over discharge of battery. Automatic brownout protection is provided.
- Labor saving AC line latch prevents battery discharge during installation to a non-energized circuit.
- Fused output circuit.
- Optional Advanced Diagnostics comes with a micro controller based pulse type charger.

Power Requirements

120/277Vac 60Hz, 0.3/0.15 Amp

Optional Features

- Unit color in black-B
- Advanced Diagnostics-AD
- Advanced Diagnostics, Non-Audible.....-ADNA

Add Prefix

Add Suffix

How To Order (example)

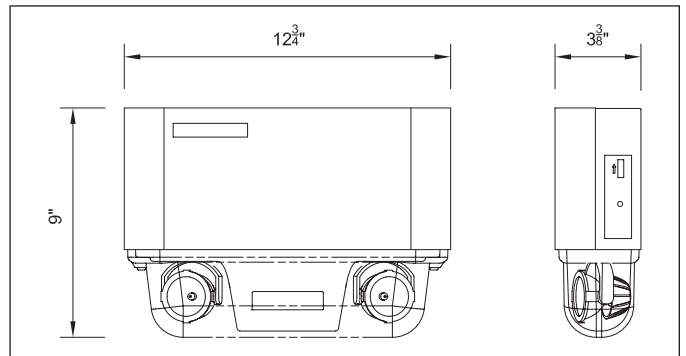
Color	JAM20	-2	MJ	-AD
Blank= Off white enamel finish B= Black enamel finish	Series/D.C. Voltage/Capacity JAM20= 6V-20W, lead calcium JAM30= 6V-30W, lead calcium JAM40= 6V-40W, lead calcium* 12JAM40= 12V-40W, lead calcium JAC20= 6V-20W, Ni-cad 12JAC36= 12V-36W, Ni-cad 12JAC50= 12V-50W, Ni-cad	Number of heads -2= 2heads	Lamp Type MI= 6V6W MH= 6V5W MJ= 6V10W MK= 12V12W MA= 12V20W MW= 12V20W IR High Output	Options -AD= advanced diagnostics -ADNA= advanced diagnostics non-audible

* Not available with AD or ADNA Options



Outline and Dimensions

Dimensions are approximate and subject to change



Unit Rating

Furnished standard with two MR16 6V10W

Battery Type	Volts	Model #	Watts to 87.5% of rated battery voltage*			
			1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.
Lead-Calcium	6	JAM20	20	-	-	-
		JAM30	30	20	-	-
		JAM40	40	30	24	-
	12	12JAM40	40	30	24	-
Nickel-Cadmium	6	JAC20	20	-	-	-
		12JAC36	36	24	-	-
		12JAC50	50	36	24	-

* National Electrical Code Specification

Power Consumption

Model #	AC Input	Maximum	
		Input Current	Input Power
JA	120 Vac	0.20 A	24 W
	277 Vac	0.08 A	24 W
12JA	120 Vac	0.24 A	30 W
	277 Vac	0.12 A	30 W



The **JS Series** is an excellent combination of economy, quality and versatility. Its compact, all metal housing is offered in a wide variety of battery choices and wattages. The JS series is furnished with our highly reliable PulsePlus charger.



Optional (FM suffix) Front Mounted Heads for low ceiling applications.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Approved for use in the Commonwealth of Pennsylvania and New York City.

Sealed Maintenance-Free Batteries

- Nickel-Cadmium
- Long Life Lead
- Lead-Calcium

Standard Features

Reliability

The **JS Series** comes complete with a 3-year full warranty, (excluding lamps and fuses).

Unit Data

Constructed of 20 gauge steel with an off-white, baked enamel finish. Hinged cabinet door for easy access. Furnished standard with two EF-18 heads with one 9 watt lamp per head.

Charger

PulsePlus circuitry offers 120/277 Vac, 60 Hz., 0.3/0.15 Amp (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

Unit color in black.....B

Description

Ammeter and/or voltmeter-A* or -V*
 Advanced diagnostics (Lead-Calcium only).....-AD
 Advanced diagnostics, non-audible.....-ADNA
 Lamp disconnect switch.....-K
 Time delay (specify 5, 10 or 15 minutes).....-D1, D2, D3**
 Cord set - 120 volt.....-C***
 Special-voltage CP (TL 277 Volt)-E***
 Front mounted heads (for low ceilings).....-FM
 EF150 decorative heads (white).....150
 EF10 lamp heads10

*Not available with diagnostics option.

**Not required when using the AD/ADNA option.

***Standard 15 minutes with AD/ADNA option.

***Standard cord is 3 ft. (custom lengths available).

Accessories (order as a separate item)

Mounting bracket (S cabinet)BJ
 Wire Guard (S cabinet)WG1-E
 Wire Guard (L cabinet)WG2-E
 Wire Guard (front mounted heads)WG10-E
 Polycarbonate vandal resistant shield (S cabinet).....VRS-BB
 NEMA 4X polycarbonate vandal resistant shield (S cabinet)VRS-BB4X

How To Order (example)

For standard units without options only order Model Number

Options are added to units by listing suffix at end of model #

JS	C	18	- 2	HB	- D1
Series	Battery Type	Watts	No. of Head	Lamp Option*	Option
	Nickel-Cadmium	for 90 min.	on unit	6V 9W Bi-Pin Halogen	Time Delay

*see lamp data for other lamp wattages.

NOTE: Includes Standard Lamp

Unit Rating Chart

Furnished standard with two 9 watt High Intensity Incandescent lamps.

UNIT EQUIPMENT - NO REMOTE CAPABILITY							
Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	*Watts to 871/2% of rated battery voltage				Cabinet Size
			1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.	
Nickel-Cadmium <input type="checkbox"/>	6	JSC18-2**	18	12	-	-	S
Long Life Lead <input type="checkbox"/>	6	JSE9-1	9	7	-	-	S
	6	JSE18-2	18	11	8	6	S
Lead-Calcium <input type="checkbox"/>	6	JSM9-1	9	6	-	-	S
	6	JSM18-2	18	12	10	7	S
UNIT EQUIPMENT - WITH REMOTE CAPABILITY							
Nickel-Cadmium <input type="checkbox"/>	6	JSC25-2**	25	18	12	9	S
	12	12JSC36-2**	36	21	15	12	S
	12	12JSC50-2**	50	36	25	18	S
Long Life Lead <input type="checkbox"/>	6	JSE27-2	27	16	12	10	S
	6	JSE36-2	36	24	17	13	S
	6	JSE54-2	54	37	28	21	L
	12	12JSE36-2	36	24	17	13	S
	12	12JSE54-2	54	37	28	21	L
	12	12JSE54-2	54	37	28	21	L
Lead-Calcium <input type="checkbox"/>	6	JSM27-2	27	18	14	10	S
	6	JSM36-2	36	25	20	14	S
	6	JSM54-2	54	37	28	21	L
	12	12JSM36-2	36	25	20	14	S
	12	12JSM54-2	54	37	28	21	L
	12	12JSM54-2	54	37	28	21	L

*National Electrical Code Specification

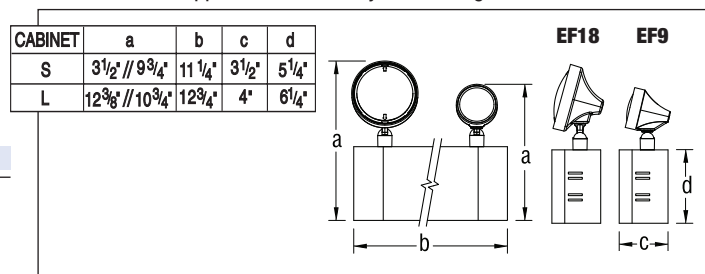
New York City Approved

**CSA NRTL UL924 Listed

= Advanced diagnostics available

Outline and Dimensions

Dimensions are approximate and subject to change.





6 an 12 Volt Thermoplastic Enclosure LP Series

The LP Series is offered where an attractive conventional emergency lighting unit is required. This series offers a wide selection of battery capacities for use when large numbers of remote fixtures are desired.

Evaluated to UL924 Standard

Complies with NEC, Life Safety Code and OSHA. Approved for use in the Commonwealth of Pennsylvania

Sealed Maintenance-Free Batteries

- Nickel-Cadmium
- Long Life Lead
- Lead-Calcium



Standard Features

Reliability

The LP Series comes complete with a 3-year full warranty, (excluding lamps and fuses).

Unit Data

The off-white thermoplastic housing includes removable front panel, keyhole mounting slots, 1/2" knockout and universal mounting cluster. Comes standard with two EF-18 heads, but optional 1 or 3 lamp heads available.

Charger

PulsePlus circuitry offers 120/277 Vac, 60 Hz., 0.3/0.15 Amp (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

- Ammeter or voltmeter (choose only one)-A or -V
 Lamp disconnect switch-K
 Time delay (specify 5, 10 or 15 minutes).....-D1, D2, D3
 Cord set – 120 volt-C*
 Cord set – special voltage (TL 277 Volt)-E*
 EF9 lamp heads (2 9-watt heads)9
 EF10 lamp heads10
 EF150 decorative heads (white).....150

Add Suffix

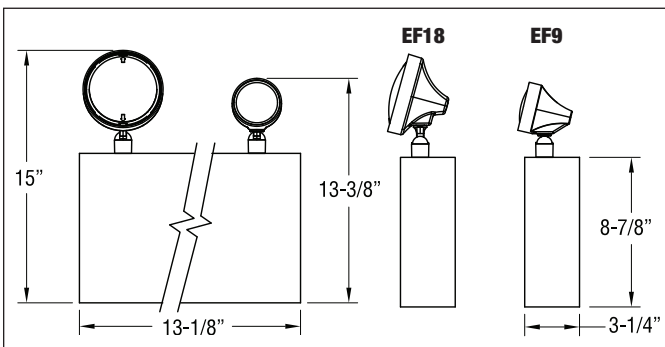
*Standard cord is 3ft. (custom lengths available).

Accessories (order as a separate item)

- Wire GuardWG2-E

Outline and Dimensions

Dimensions are approximate and subject to change.



Unit Rating Chart

Furnished standard with two 9 watt High Intensity Incandescent lamps.

UNIT EQUIPMENT - NO REMOTE CAPABILITY						
Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	*Watts to 871/2% of rated battery voltage			
			1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.
Nickel-Cadmium	6	LPC18-2	18	12	9	6
Long Life Lead	6	LPE18-2	18	11	8	6
Lead-Calcium	6	LPM18-2	18	12	10	7
UNIT EQUIPMENT - WITH REMOTE CAPABILITY						
Nickel-Cadmium	6	LPC25-2	25	18	12	9
	12	12LPC36-2	36	21	15	12
	12	12LPC50-2	50	36	25	18
Long Life Lead	6	LPE27-2	27	19	14	10
	6	LPE36-2	36	24	17	13
	6	LPE50-2	50	36	26	20
	12	12LPE36-2	36	24	17	13
	12	12LPE54-2	54	37	28	21
Lead-Calcium	6	LPM27-2	27	18	14	10
	6	LPM36-2	36	25	20	14
	6	LPM54-2	54	37	28	21
	12	12LPM36-2	36	25	20	14
	12	12LPM54-2	54	37	28	21

*National Electrical Code Specification

How To Order (example)

For standard units without options only order Model Number

Options are added to units by listing suffix at end of model #

LP	C	18	- 2	ZD	- D1
Series	Battery Type	Watts	No. of Head	Lamp Option*	Option
	Nickel-Cadmium	for 90 min.	on unit	6V 9W Incandescent	Time Delay

*see lamp data for other lamp wattages.

NOTE: Includes Standard Lamp

LSE & LC Series 6 and 12 Volt Steel Enclosure



The **LS & LC Series** is offered where an attractive conventional emergency lighting unit is required. This series offers a wide selection of battery capacities for use when a large number of remote fixtures are desired.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Approved for use in the Commonwealth of Pennsylvania and New York City.

Sealed Maintenance-Free Batteries

- Long Life Lead
- Lead-Calcium (Immobilized Electrolyte)

Unit Rating Chart

Furnished standard with two 9 watt High Intensity Incandescent lamps.

Standard Features

Reliability

The **LS & LC Series** comes complete with a 3-year full warranty, (excluding lamps and fuses).

Unit Data

All steel construction with an off-white, baked enamel finish. Removable front panel. Standard with two EF-18 heads with a 9 watt lamp per head. Optional one or three heads available.

Charger

PulsePlus circuitry offers 120/277 Vac, 60 Hz., 0.3/0.15 Amp (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

Add Suffix

Advanced diagnostics (Lead-Calcium only)	-AD
Advanced diagnostics, non-audible	-ADNA
Ammeter or voltmeter (A cabinet units, choose only one)	-A* or -V*
Lamp disconnect switch	-K**
Time delay (specify 5, 10 or 15 minutes)	-D1, D2, D3**
Cord set - 120 Volt	-C***
Special-voltage CP (TL 277 Volt)	-E***
EF9 lamp heads (2 9-watt heads)	9
EF10 lamp heads	10
EF150 decorative heads (white)	150

*Not available with diagnostics options

**Not required with the AD/ADNA option.

***Standard 15 minutes with AD/ADNA option.

***Standard cord is 3 ft. custom lengths available.

Accessories (order as a separate item)

Mounting bracket (cabinet A)	B1
Mounting bracket (cabinet B)	B2
Mounting shelves (cabinet B)	MP3
Mounting shelves (cabinet C)	MP6
Mounting shelves (cabinet D)	MP12
Wire Guard (cabinet A)	WG2-E
Wire Guard (cabinet B & cabinet C)	WG3-E
Wire Guard (cabinet D)	WG4-E

How To Order (example)

For standard units without options only order Model Number

Options are added to units by listing suffix at end of model #

LS	E	18	- 2	ZD	- D1
Series	Battery Type	Watts	No. of Head	Lamp Option*	Option
	Long Life Lead	for 90 min.	on unit	6V 9W	Time Delay

*see lamp data for other lamp wattages.

NOTE: Includes Standard Lamp

UNIT EQUIPMENT - NO REMOTE CAPABILITY													
Sealed Maintenance-Free Battery Types	D.C. Volt	Model Number	*Watts to 87 1/2% of rated battery voltage				# of Load Fuses	Cabinet Size					
			1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.							
Long Life Lead	<input type="checkbox"/>	6	LSE18-2	18	11	8	6	1	A				
UNIT EQUIPMENT - WITH REMOTE CAPABILITY													
Long Life Lead	<input type="checkbox"/>	6	LSE27-2	11 1/2 hrs.	2 hrs.	4 hrs.	8 hrs.	1	A				
				27	19	10	5						
				6	LSE36-2	36	24			13	7	1	A
				6	LSE54-2	54	36			20	11	1	A
				6	LSE80-2	80	65			35	19	2	B
				6	LSE110-2	110	74			43	21	2	B
				12	12LSE36-2	36	24			13	7	1	A
				12	12LSE54-2	54	37			21	10	2	A
				12	12LSE72-2	72	48			26	14	2	B
				12	12LSE110-2	110	74			43	21	2	B
				12	12LSE320-2	320	210			120	60	2	D
				Lead Calcium (Immobilized electrolyte)	<input type="checkbox"/>	6	LC87-2			87	70	41	24
6	LC100-2	100	77					47	24	2	C		
6	LC175-2	175	140					82	48	2	C		
6	LC200-2	200	168					96	48	2	C		
12	12LC150-2	150	120					66	36	2	C		
12	12LC175-2	175	140					85	48	2	C		
12	12LC200-2	200	168					96	48	2	C		
12	12LC300-2	300	240					132	72	2	D		
12	12LC350-2	350	280					170	96	2	D		
12	12LC400-2	400	336					192	95		D		

*National Electrical Code Specification

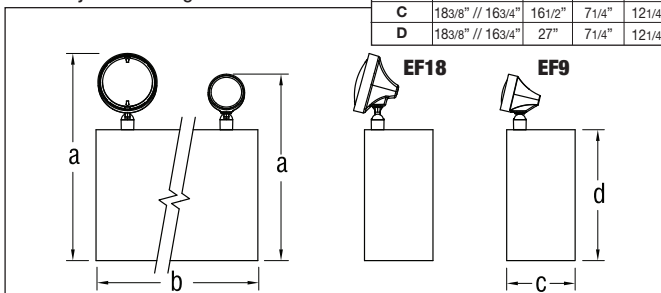
New York City Approved

= Advanced Diagnostics Available

Outline and Dimensions

Dimensions are approximate and subject to change.

Cabinet Size	Dimensions			
	a	b	c	d
A	14 5/8" // 13"	133/4"	3 1/8"	8 1/2"
B	16 3/8" // 14 3/4"	16 1/8"	5 7/16"	10 1/4"
C	18 3/8" // 16 3/4"	16 1/2"	7 1/4"	12 1/4"
D	18 3/8" // 16 3/4"	27"	7 1/4"	12 1/4"





6 and 12 Volt Steel Enclosure LS Series

The **LS Series** is offered where an attractive conventional emergency lighting unit is required. This series offers a wide selection of battery capacities for use when a large number of remote fixtures are desired.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Approved for use in the Commonwealth of Pennsylvania and New York City.

Sealed Maintenance-Free Batteries

- Nickel-Cadmium • Lead-Calcium

Standard Features

Reliability

The **LS Series** comes complete with a 3-year full warranty, (excluding lamps and fuses).

Unit Data

Constructed of 20 gauge steel with an off-white, baked enamel finish. Removable front panel. Furnished standard with two EF-18 heads with one 9 watt lamp per head. Optional one or three heads available.

Charger

PulsePlus circuitry offers 120/277 Vac, 60 Hz., 0.3 /0.15 Amp (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

Add Suffix

- Ammeter or voltmeter (A cabinet units, choose only one).....-A* or -V*
- Advanced diagnostics (Lead-Calcium only)-AD
- Advanced diagnostics, non-audible-ADNA
- Lamp disconnect switch-K**
- Time delay (specify 5, 10 or 15 minutes)-D1, D2, D3**
- Cord set - 120 Volt-C***
- Special-voltage CP (TL 277 Volt)-E***
- EF9 lamp heads (2 9-watt heads)9
- EF10 lamp heads10
- EF150 decorative heads (white).....150

*Not available with diagnostics options.

**Not required with the AD/ADNA option.

***Standard 15 minutes with AD/ADNA option.

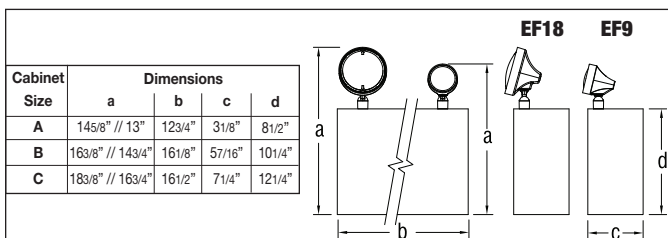
***Standard cord is 3 ft. (custom lengths available).

Accessories (order as a separate item)

- Mounting bracket (cabinet A)B1
- Mounting bracket (cabinet B)B2
- Mounting shelves (cabinet B)MP3
- Mounting shelves (cabinet C)MP6
- Wire Guard (cabinet A & cabinet B)WG2-E
- Wire Guard (cabinet B & cabinet C)WG3-E

Outline and Dimensions

Dimensions are approximate and subject to change.



Unit Rating Chart

Furnished standard with two 9 watt High Intensity Incandescent lamps.

UNIT EQUIPMENT - NO REMOTE CAPABILITY									
Sealed Maintenance-Free Battery Types	D.C. Volt	Model Number	*Watts to 87 1/2% of rated battery voltage				# of Load Fuses	Cabinet Size	
			1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.			
Nickel-Cadmium <input type="checkbox"/>	6	LSC18-2**	18	12	9	6	1	A	
Lead-Calcium <input type="checkbox"/>	6	LSM18-2	18	12	10	7	1	A	
UNIT EQUIPMENT - WITH REMOTE CAPABILITY									
			1 1/2 hrs.	2 hrs.	4 hrs.	8 hrs.			
Nickel-Cadmium <input type="checkbox"/>	6	LSC25-2**	25	18	9	-	1	A	
	<input type="checkbox"/>	12	12LSC36-2**	36	21	12	6	1	A
	<input type="checkbox"/>	12	12LSC50-2**	50	36	18	10	1	A
Lead-Calcium <input type="checkbox"/>	6	LSM27-2	27	18	10	6	1	A	
	<input type="checkbox"/>	6	LSM36-2	36	25	14	7	1	A
	<input type="checkbox"/>	6	LSM54-2	54	37	21	12	1	A
	<input type="checkbox"/>	6	LSM81-2	81	54	36	18	2	B
	<input type="checkbox"/>	6	LSM110-2	110	72	40	24	2	B
	<input type="checkbox"/>	6	LSM162-2	162	108	60	36	2	C
	<input type="checkbox"/>	6	LSM200-2	200	144	80	48	2	C
	<input type="checkbox"/>	12	12LSM36-2	36	25	14	7	1	A
	<input type="checkbox"/>	12	12LSM54-2	54	37	21	12	1	A
	<input type="checkbox"/>	12	12LSM110-2	110	72	40	24	2	B
<input type="checkbox"/>	12	12LSM162-2	162	108	60	36	2	C	
<input type="checkbox"/>	12	12LSM220-2	220	144	80	48	2	C	

*National Electrical Code Specification

New York City Approved

**CSA NRTL UL924 Listed

= Advanced diagnostics available

How To Order (example)

For standard units without options only order Model Number

Options are added to units by listing suffix at end of model #

LS	C	18	- 2	ZD	- D1
Series	Battery Type	Watts	No. of Head	Lamp Option*	Option
	Nickel-Cadmium	for 90 min.	on unit	6V 9W	Time Delay

*see lamp data HIT for other lamp wattages.

NOTE: Includes Standard Lamp



The **NV** and **ELC Series** are offered where a reliable, long-life, low maintenance wet battery unit is required. These series are designed for remote capability and offer a wide selection of battery capacities.

UL Listed

Complies with NEC and OSHA. Approved use in the Commonwealth of Pennsylvania.

Wet Refillable Batteries

- Wet Nickel-Cadmium
- Wet Lead-Cadmium

Wet Nickel-Cadmium batteries are advantageous for areas that experience extreme ambient temperature fluctuations.

Standard Features

Reliability

The **NV** and **ELC Series** comes complete with a 3-year full warranty, (excluding lamps and fuses).

Unit Data

Constructed of 18 gauge steel with an off-white baked enamel finish. Removable front panel with battery viewport. Furnished standard with two EF-18 heads, with one 9 watt lamp per head.

Charger

PulsePlus circuitry offers 120/277 Vac, 60 Hz., 0.3/0.15 Amp (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

Ammeter	-A*
Voltmeter	-V
Advanced diagnostics (ELC units only)	-D
Advanced diagnostics, non-audible (ELC units only)	-A
Lamp disconnect switch	-K
Time delay (specify 5, 10 or 15 minutes)	-D3, D3*
Cord set – 120 volt	-C***
Cord set – special voltage (TL 277 Volt)	-E***

- *Not available with diagnostics options
- **Not required with the AD/ADNA option.
- **Standard 15 minutes with AD/ADNA option.
- ***Standard cord is 3 ft., custom lengths available.

Accessories (order as a separate item)

Mounting shelf (cabinet C)	-M
Mounting shelf (cabinet D)	-M2
Wire Guard (cabinet C)	-WG3-E
Wire Guard (cabinet D)	-WG4-E

How To Order (example)

For standard units without options only order Series, Battery, Watts and Heads listing of model #

EL	C	90	-	2	-	D1
Series	Battery Type	Watts	Heads	Lamp Option	Option	
	wet Lead-Cadmium	for 90 min.	on unit	6V 9W Incandescent	Time Delay	

Includes standard lamp *see lamp data for other lamp wattages.

Unit Rating Chart

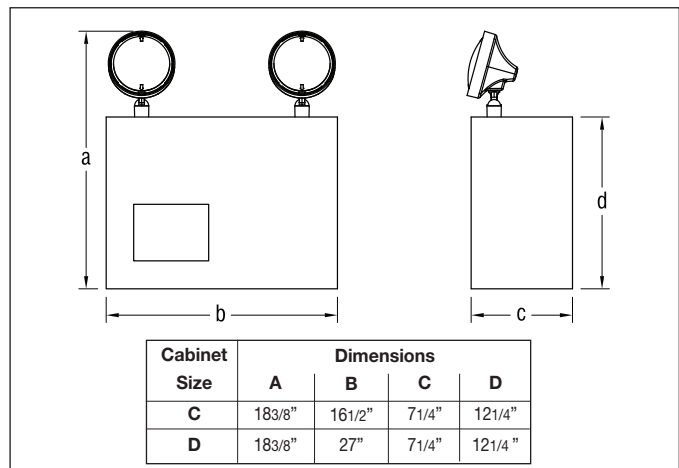
Furnished standard with two 9 watt High Intensity Incandescent lamps.

UNIT EQUIPMENT - WITH REMOTE CAPABILITY							
Wet Refillable Batteries	Voltage	Model Number	*Watts to 87 1/2% of rated battery voltage			Cabinet Size	
			1 1/2 hrs.	2 hrs.	4 hrs.		8 hrs.
Nickel-Cadmium	6	NV81-2	81	70	30	18	C
	6	NV93-2	93	75	33	24	C
	6	NV125-2	125	100	54	30	C
	6	NV163-2	163	126	72	40	C
	12	12NV162-2	162	140	60	36	D
	12	12NV186-2	186	150	66	48	D
	12	12NV250-2	250	200	106	60	D
Lead-Cadmium	6	ELC90-2	90	72	42	20	C
	6	ELC110-2	110	81	46	23	C
	6	ELC200-2	200	162	94	46	C
	12	12ELC200-2	200	160	90	46	C
	12	12ELC400-2	400	320	185	93	D

*National Electrical Code Specification □ = Advanced diagnostics available

Outline and Dimensions

Dimensions are approximate and subject to change.





The **24 LS & 24 LC Series** is offered where an attractive conventional emergency lighting unit is required. This series offers a wide selection of battery capacities for use when a large number of remote fixtures are desired.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Approved for use in the Commonwealth of Pennsylvania.

Sealed Maintenance-Free Batteries

- Nickel-Cadmium
- Long Life Lead
- Lead-Calcium (Immobilized Electrolyte)
- Lead-Calcium

Standard Features

Reliability

The 24 LS & 24 LC Series comes complete with a 3-year full warranty, excluding lamps and fuses.

Unit Data

All steel construction with an off-white, baked enamel finish. Removable front panel. Furnished standard with two EF-18 heads with one 9 watt lamp per head.

Charger

PulsePlus circuitry offers 120/277 Vac, input 60 Hz., 0.3/0.15 Amp (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

Add Suffix

- Advanced diagnostics (Lead only)-AD
- Ammeter-A*
- Voltmeter-V
- Lamp disconnect switch-K
- Time delay (specify 5, 10 or 15 minutes)-D1, D2, D3**
- Cord set - 120 volt-C***
- Special-voltage CP (TL 277 Volt)-E***

*Not available with AD option.
 **Not required when using AD option.
 **Standard 15 minutes with AD/ADNA option.
 ***Standard cord is 3 ft. (custom lengths available).

Accessories (order as a separate item)

- Mounting bracket (cabinet B).....B2
- Mounting shelves (cabinet B)MP3
- Mounting shelves (cabinet C)MP6
- Mounting shelves (cabinet D)MP12
- Wire Guard (cabinet B)WG2-E
- Wire Guard (cabinet C)WG3-E
- Wire Guard (cabinet D)WG4-E

How To Order (example)

For standard units without options only order Model Number

Options are added to units by listing suffix at end of model #

24LS	C	78	- 2	ZN	- D1
Series	Battery Type	Watts for 90 min.	No. of Head on unit	Lamp Option* 24V 9W Incandescent	Option Time Delay

*see lamp data for other lamp wattages.

NOTE: Includes standard lamp



Unit Rating Chart

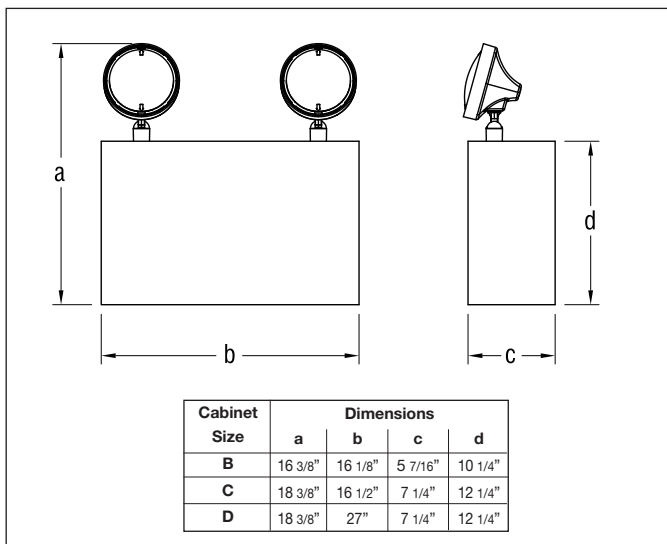
Furnished standard with two 9 watt High Intensity Incandescent lamps.

UNIT EQUIPMENT - WITH REMOTE CAPABILITY								
Sealed Maintenance-Free Battery Types	D.C. Volt	Model Number	*Watts to 87 1/2% of rated battery voltage				# of Load Fuses	Cabinet Size
			1 1/2 hrs.	2 hrs.	4 hrs.	8 hrs.		
Nickel-Cadmium	24	24LSC72-2	72	42	24	12	2	B
	24	24LSC100-2	100	73	37	20	2	B
Long Life Lead	24	24LSE72-2	72	48	26	14	2	B
	24	24LSE110-2	110	74	43	21	2	B
	24	24LSE320-2	320	300	148	76	2	D
Lead-Calcium (Immobilized Electrolyte)	24	24LC300-2	300	240	132	72	2	D
	24	24LC350-2	350	280	168	96	2	D
	24	24LC400-2	400	336	192	96	2	D
Lead-Calcium	24	24LSM110-2	110	72	40	24	2	B
	24	24LSM220-2	220	144	80	48	2	C

*National Electrical Code Specification □ = Advanced diagnostics available

Outline and Dimensions

Dimensions are approximate and subject to change.



24 NV & 24 ELC Series 24 Volt



The **24 NV** and **24 ELC Series** are offered where a reliable, long-life, low maintenance wet battery unit is required. These series are designed for remote capability and offer a wide selection of battery capacities.

UL Listed

Complies with NEC and OSHA. Approved use in the Commonwealth of Pennsylvania.

Wet Refillable Battery

- Wet Nickel-Cadmium
- Wet Lead-Calcium

Wet Nickel-Cadmium batteries are advantageous for areas that experience extreme ambient temperature fluctuations.

Standard Features

Reliability

The 24 NV and 24 ELC Series comes complete with a 3-year full warranty, (excluding lamps and fuses).

Unit Data

Constructed of 18 gauge steel with an off-white baked enamel finish. Removable front panel with battery viewport. Furnished standard with two EF-18 heads, with one 9 watt lamp per head.

Charger

PulsePlus circuitry offers 120/277 Vac, 60 Hz., 0.3/0.15 Amp (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Unit Data Chart

Furnished standard with two 9 watt High Intensity Incandescent lamps.

Wet Refillable Battery Voltage	Model Number	*Watts to 87 1/2% of rated battery voltage				Cabinet Size
		1 1/2 hrs.	2 hrs.	4 hrs.	8 hrs.	
Nickel-Cadmium	24 24NV144-2	144	120	52	30	E
	24 24NV164-2	164	140	64	40	E
	24 24NV200-2	200	180	80	45	E
	24 24NV324-2	324	280	120	72	E
	24 24NV372-2	372	300	132	90	E
Wet Lead-Calcium	24 24ELC400-2	400	320	185	93	D

*National Electrical Code Specification

Optional Features

Description

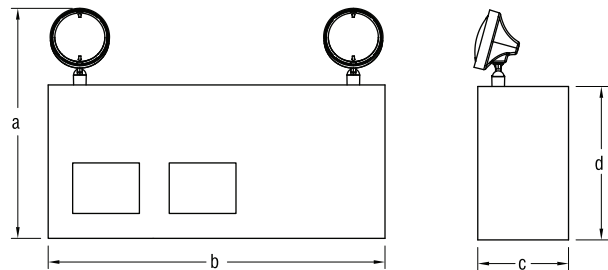
- Add Suffix
 Ammeter
 Voltmeter
 Lamp disconnect switch
 Time delay (specify 5, 10 or 15 minutes).....-D1, D2,
 Cord set – 120 volt
 Cord set – special voltage (specify plug type).....E*
 *Standard cord is 3 ft. (custom lengths available).

Accessories (order as a separate item)

- Mounting shelf (cabinet D)MP12
 Wire Guard (cabinet D)M-E

Outline and Dimensions

Dimensions are approximate and subject to change.



Cabinet Size	Dimensions			
	A	B	C	D
D	183/8"	27"	7 1/4"	12 1/4"
E	183/8"	27"	11 1/4"	12 1/4"

How To Order (example)

For standard units without options only order Series, Battery, Watts and Heads listing suffix and model #

24EL C 400 - 2 *ZN D1

Series	Battery Type	Watts	Option	Option
24EL	wet Lead-Calcium	400 for 90 min.	2	D1

Options are limited to units by listing suffix and model #

Includes standard lamp



Industrial Series

IL Series	40
IND Series - Discontinued	41
KS Series	42
KS Steel Series	43
Hazardous Locations	44
HZM Series	45
EXC Series	46-47
EFEP Series	48
EFXP Series	49
EXPK Series	50-51
Survive-All SV Series	52-53
Survive-All SVX Combo Series	54

IL Series 6, 12 & 24 Volt Heavy Duty Industrial Emergency Unit



The **IL Series** is offered where a heavy-duty conventional emergency lighting unit is required for industrial applications. This series is designed to provide ample battery capacity for use when remote fixtures are required.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Approved for use in the Commonwealth of Pennsylvania.

Sealed Maintenance-Free Batteries

- Nickel-Cadmium • Long Life Lead
- Lead-Calcium (Free Electrolyte) • Lead-Calcium

Unit Rating Chart

Furnished standard with two 9 watt High Intensity Incandescent lamps.

Standard Features

Reliability

The **IL Series** comes complete with a 3-year full warranty, (excluding lamps and fuses).

Unit Data

Unit housing is all steel construction, with a gray, baked enamel finish. Provision for mounting to any standard 4" octagonal electrical box. The hinged and lockable front door allows easy access for maintenance and provides security against unauthorized access and vandalism. The **IL Series** unit is furnished standard with two EF18 lighting heads constructed of impact resistant, flame retardant thermoplastic material complete with 9 watt high intensity incandescent lamps.

Charger

PulsePlus circuitry offers 120/277 Vac, 60 Hz., 0.3/0.15 Amp (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

Add Suffix

- Advanced diagnostics (lead only)-AD
- Advanced diagnostics, non-audible-ADNA
- Ammeter-A*
- Voltmeter-V*
- Lamp disconnect switch-K
- Time delay (specify 5, 10 or 15 minutes)-D1, D2, D3**
- Cord set - 120 Volt-C***
- Cord set - special-voltage (TL 277 Volt)-E***
- Off-white cabinet and heads-OW
- Special cabinet colorsSpecify

*Not available with diagnostic option **Not required with the AD/ADNA option

** Standard 15 minutes with AD/ADNA options

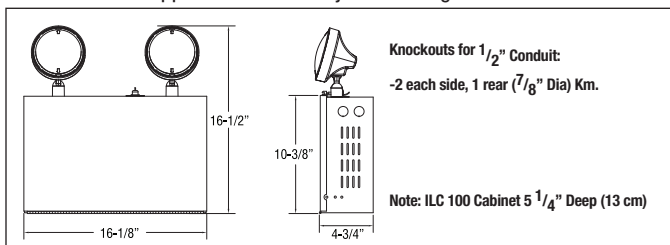
***Standard cord is 3 ft., custom lengths available.

Accessories (order as a separate item)

- Mounting bracketB2
- Mounting shelves (gray)MP3-GY
- Mounting shelves (off-white)MP3
- Mounting shelves (ILC100-2 unit)MP6
- Wire GuardWG3-E

Outline and Dimensions

Dimensions are approximate and subject to change.



UNIT EQUIPMENT - NO REMOTE CAPABILITY								
Sealed Maintenance-Free Battery Types	D.C. Volt	Model Number	*Watts to 871/2% of rated battery voltage				# of Load Fuses	
			1 1/2 hrs.	2 hrs.	4 hrs.	8 hrs.		
Nickel-Cadmium	6	ILSC18-2**	18	12	6	-	-	
Long Life Lead	6	ILSE18-2	18	11	6	-	-	
Lead-Calcium	6	ILSM18-2	18	12	7	-	-	
UNIT EQUIPMENT - WITH REMOTE CAPABILITY								
Nickel-Cadmium	6	ILSC25-2**	25	18	9	-	-	
	12	12ILSC36-2**	36	21	12	6	1	
	12	12ILSC50-2**	50	36	18	10	1	
	24	24ILSC72-2	72	42	24	12	2	
	24	24ILSC100-2	100	73	36	20	2	
Long Life Lead	6	ILSE27-2	27	16	10	6	-	
	6	ILSE36-2	36	24	13	7	-	
	6	ILSE54-2	54	36	20	11	-	
	6	ILSE80-2	80	65	35	19	-	
	6	ILSE110-2	110	72	40	24	-	
	12	12ILSE36-2	36	24	13	7	1	
	12	12ILSE54-2	54	37	21	10	1	
	12	12ILSE72-2	72	48	26	14	2	
	12	12ILSE110-2	110	74	43	21	2	
	24	24ILSE72-2	72	48	26	14	2	
Lead-Calcium (Immobilized Electrolyte)	6	ILC87-2	87	70	41	24	-	
	6	ILC100-2	100	77	47	24	-	
Lead-Calcium	6	ILSM27-2	27	18	10	6	-	
	6	ILSM36-2	36	25	14	7	-	
	6	ILSM54-2	54	37	21	12	-	
	6	ILSM81-2	81	54	36	18	-	
	6	ILSM110-2	110	72	40	24	-	
	12	12ILSM36-2	36	25	14	7	1	
	12	12ILSM54-2	54	37	21	12	1	
	12	12ILSM110-2	110	72	40	24	2	
	24	24ILSM110-2	110	72	40	24	2	

* National Electrical Code Specification

*CSA NRTL UL924 Listed

□ = Advanced diagnostics available

How To Order (example)

For standard units without options only order Model Number

Options are added to units by listing suffix at end of model #

ILS	C	25	- 2	ZD	- D1
Series	Battery Type	Watts	No. of Head	Lamp Option*	Option
	Nickel-Cadmium	for 90 min.	on unit	6V 9W (HIT)	Time Delay

*see lamp data for other lamp wattages.

NOTE: Includes Standard Lamp



6 Volt Harsh Environment Enclosure IND Series

The **IND Series** is designed specifically for industrial applications involving severely corrosive or wet environments. It is ideally suited for hose-down areas such as: food processing plants, machine locations, chemical plants.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Approved for use in the commonwealth of Pennsylvania

Sealed Maintenance-Free Batteries

- Nickel-Cadmium



Standard Features

Reliability

The **IND Series** comes complete with a 3-year full warranty (including lamps and fuses).

Unit Enclosure Data

The unit is built into a U.L. Listed NEMA 4X enclosure that is weather and corrosion resistant. It has a gasketed polycarbonate industrial gray cabinet with an off-white interior panel incorporating a rust-free polycarbonate access cover, secured with non-corrosive screws. A heavy-duty grommeted push-to-test switch is corrosion resistant and weatherproof, gasketed. Unit is also furnished with two(2) fully adjustable lamp heads with one high intensity 6V 9 watt lamp per head.

2 Rate Constant Current Charger

Circuitry offers 120/277 Vac, 60 Hz., 0.5A, 15W (standard output circuit(s), AC pilot light supervision, temperature compensated sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

Add Suffix

- Time Delay (Specify 5, 10 or 15 min)-D1, D2 or D3
- Non-standard input voltageSpecify
- Weatherproof Cord Set -120 Volt-C*
- Weatherproof Cord Set-277 Volt (Specify plug type)-E*
- Tamperproof Locking Cover (Screws provided)-TPS
- Tamperproof Wrench (Screws provided) (TPS assembly).....-TPW
- Temperature Control 120V Heat-H1
- Temperature Control 277VAC Heat-H2

*Standard cord is 3' (other lengths available).

How To Order (Example)

For standard units with no options only order the model # and Watts

Options are added to units by listing suffix at end of model #

IND	25	-	D1
Series	Watts for 90 min.		Option Time Delay

Includes Standard Lamp

Unit Rating Chart

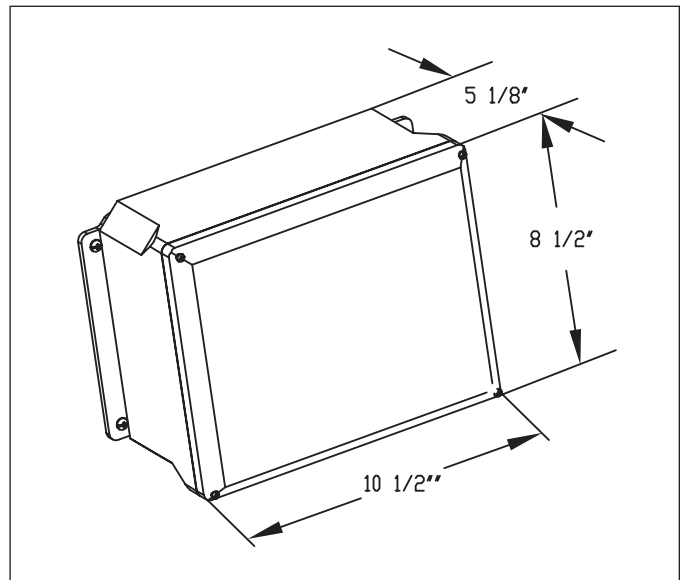
Furnished standard with two 9 watt High Intensity Incandescent lamps.

UNIT EQUIPMENT - NO REMOTE CAPABILITY						
Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	*Watts to 87 1/2% of rated battery voltage			
			1 1/2 hrs.	2hrs.	3hrs.	4 hrs.
Nickel-Cadmium	6	IND-18	18	12	-	-
	6	IND-25	25	18	12	9

*National Electrical Code Specification

Outline and Dimensions

Dimensions are approximate and subject to change.



KS Series 6, 12 & 24 Volt Harsh Environment Enclosures



Small "S" Enclosure
High Impact Thermoplastic Housing
 Weather & Corrosion-resistant
 18 to 110 watts
 6, 12 & 24 volts

Large "L" Enclosure
Fiberglass Housing
 U.L. Listed NEMA Enclosure
 160 and 175 watts 6 & 12 volts

Standard Features

Reliability

The **KS Series** comes complete with a 3-year full warranty, (excluding lamps and fuses).

Unit Enclosure Data

Both the "S" and "L" enclosure are weather and corrosion-resistant. The "L" enclosure is a U.L. Listed NEMA enclosure. Both include separate battery compartments, fully gasketed door, stainless steel hardware and weather and corrosion-resistant lighting heads installed. The "S" enclosure is constructed of high impact thermoplastic and the "L" enclosure is constructed of fiberglass.

Charger

PulsePlus circuitry offers 120/277 Vac, 60 Hz., 0.3/0.15 Amp (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

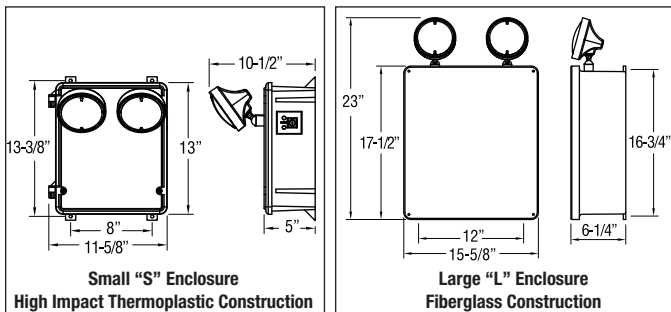
Optional Features

Description	Add Suffix
Advanced Diagnostics (lead only)	-AD
Advanced Diagnostics, non-audible	-ADNA
Lamp Disconnect Switch	-K
Time Delay (Specify 5, 10 or 15 minutes)	-D1, D2, D3*
Temperature Control, 120 volt heater	-H1
Temperature Control, 277 volt heater	-H2
Cord & Plug for NEMA 4X Fiberglass Enclosure	-C**
Cord & Plug (TL 277 Volt)	-E**
Photometric Test Switch.....	-S
Voltmeter.....	-V*
Ammeter	-A*
Tamper Proof Screws.....	-VR
Large Cabine	-FL
Top Mounted Heads	-TM

* Not required with the AD/ADNA option. **Standard 15 minutes with AD/ADNA option.
 **Standard cord is 3 ft. (custom lengths available).

Enclosure Outline and Dimensions

Dimensions are approximate and subject to change.



The **KS Series** is designed specifically for industrial applications involving severely corrosive or damp environments. The enclosures are chemical resistant, fully gasketed and come with stainless steel hardware. These units are ideally suited for areas such as food processing plants, marine locations and chemical plants.

UL Listed

Complies with NEC, Life Safety Code and OSHA.

Sealed Maintenance-Free Batteries

- Nickel-Cadmium • Long Life Lead
- Lead-Calcium (Free Electrolyte) • Lead-Calcium

Unit Rating Chart

Furnished standard with two 9 watt High Intensity Incandescent lamps.

UNIT EQUIPMENT - NO REMOTE CAPABILITY							
Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	*Watts to 871/2% of rated battery voltage				Unit Housing
			1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.	
Nickel-Cadmium	6	KSC18-2-F**	18	12	10	7	S
Long Life Lead	6	KSE18-2-F	18	11	8	6	S
UNIT EQUIPMENT - WITH REMOTE CAPABILITY							
Nickel-Cadmium	6	KSC25-2-F**	25	18	9	5	S
	12	12KSC36-2-F**	36	21	12	6	S
	12	12KSC50-2-F**	50	36	18	10	S
	24	24KSC100-2-F	100	73	37	20	S
Long Life Lead	6	KSE27-2-F	27	19	10	5	S
	6	KSE36-2-F	36	24	13	7	S
	6	KSE54-2-F	54	36	20	11	S
	6	KSE80-2-F	80	65	35	19	S
	6	KSE110-2-F	110	74	43	21	S
	6	KSE160-2-F	160	130	70	38	L
	12	12KSE36-2-F	36	24	13	7	S
	12	12KSE54-2-F	54	37	21	10	S
	12	12KSE110-2-F	110	74	43	21	S
	12	12KSE160-2-F	160	130	70	38	L
Lead-Calcium (Free Electrolyte)	6	KC87-2-F	87	70	41	24	S
	6	KC100-2-F	100	77	47	24	L
	6	KC175-2-F	175	140	82	48	L
	12	12KC175-2-F	175	140	85	48	L
Lead-Calcium	6	KSM27-2-F	27	18	10	6	S
	6	KSM54-2-F	54	37	21	12	S
	6	KSM81-2-F	81	54	30	18	S
	6	KSM110-2-F	110	72	40	24	S
	12	12KSM54-2-F	54	37	21	12	S
	12	12KSM110-2-F	110	72	40	24	S
	24	24KSM110-2-F	110	72	40	24	S

*National Electrical Code Specification

□ = Advanced diagnostics available

**CSA NRTL UL924 Listed

How To Order (example)

For standard units without options only order Model Number

Options are added to units by listing suffix at end of model #

KS	E	18	- 2	ZD	F	- D1
Series	Battery Type	Watts	No. of Head	Lamp Option*	NEMA 4X	Option
	Long Life Lead for 90 min.		on unit	6V 9W incandescent	Enclosure	Time Delay

*see lamp data sheet for other lamp wattages.

NOTE: Includes standard lamp



6, 12 & 24 Volt KS Steel Series Harsh Environment Enclosures

The **KS Steel Series**, industrial emergency lighting units, are designed to protect the circuitry and connections from harmful dust, liquids and atmospheric contaminants.

UL Listed

Complies with NEC, Life Safety Code and OSHA.

Sealed Maintenance-Free Batteries

- Nickel-Cadmium • Long Life Lead
- Lead-Calcium (Free Electrolyte) • Lead-Calcium

Unit Rating Chart

Furnished standard with two 9 watt High Intensity Incandescent lamps.

UNIT EQUIPMENT - NO REMOTE CAPABILITY						
Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	*Watts to 87 1/2% of rated battery voltage			
			1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.
Nickel-Cadmium <input type="checkbox"/>	6	KSC18-2**	18	12	10	7
Long Life Lead <input type="checkbox"/>	6	KSE18-2	18	11	8	6
UNIT EQUIPMENT - WITH REMOTE CAPABILITY						
Nickel-Cadmium <input type="checkbox"/>	6	KSC25-2**	25	18	9	5
	12	12KSC36-2**	36	21	12	6
	12	12KSC50-2**	50	36	18	10
	24	24KSC100-2	100	73	37	20
Long Life Lead <input type="checkbox"/>	6	KSE27-2	27	19	10	5
	6	KSE36-2	36	24	13	7
	6	KSE54-2	54	36	20	11
	6	KSE80-2	80	65	35	19
	6	KSE110-2	110	74	43	21
	6	KSE160-2	160	130	70	38
	12	12KSE36-2	36	24	13	7
	12	12KSE54-2	54	37	21	10
	12	12KSE110-2	110	74	43	21
	12	12KSE160-2	160	130	70	38
	24	24KSE110-2	110	74	43	21
	Lead-Calcium (Free Electrolyte) <input type="checkbox"/>	6	KC87-2	87	70	41
6		KC100-2	100	77	47	24
6		KC175-2	175	140	82	48
12		12KC175-2	175	146	85	48
Lead-Calcium <input type="checkbox"/>	6	KSM27-2	27	18	10	6
	6	KSM54-2	54	37	21	12
	6	KSM81-2	81	54	30	18
	6	KSM110-2	110	72	40	24
	12	12KSM54-2	54	37	21	12
	12	12KSM110-2	110	72	40	24
	24	24KSM110-2	110	72	40	24

*National Electrical Code Specification ? = Advanced diagnostics available
 **CSA NRTL UL924 Listed

How To Order (example)

For standard units without options only order Model Number

Options are added to units by listing suffix at end of model #

KS	E	18	- 2	ZD	- D1
Series	Battery Type	Watts for 90 min.	No. of Head on unit	Lamp Option* 6V 9W incandescent	Option Time Delay
	Long Life Lead				

*see lamp data sheet for other lamp wattages.

NOTE: Includes standard lamp



Standard Features

Reliability

The KS Series comes complete with a 3-year full warranty, (excluding lamps and fuses).

Unit Enclosure Data

Constructed of 14 gauge steel with a fully gasketed hinged door and separate battery compartment. It is finished with a gray baked epoxy enamel. Up to three weather resistant thermoplastic heads can be mounted on the enclosure.

Charger

PulsePlus circuitry offers 120/277 Vac, 60 Hz., 0.3/0.15 Amp (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

Add Suffix

Temperature Control, 120V Heater.....	-H1
Temperature Control, 277V Heater.....	-H2
Voltmeter.....	-V*
Advanced Diagnostics (Lead only).....	-AD
Advanced Diagnostics, non-audible.....	-ADNA
Lamp Disconnect Switch.....	-K
Time Delay (Specify 5, 10 or 15 minutes).....	-D1, D2 or D3*
Cord & Plug – Special Voltage (Specify type).....	-C**

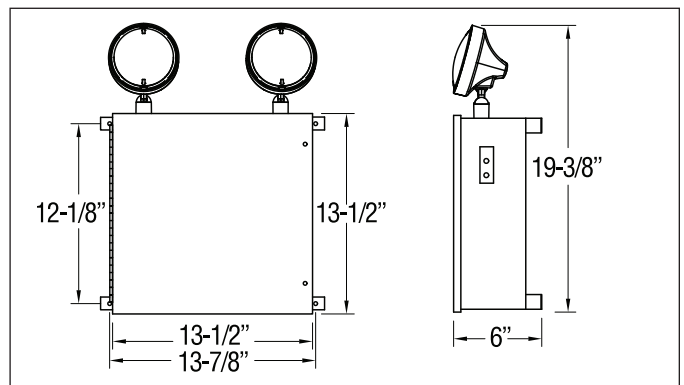
* Not required with the AD option.

**Standard 15 minutes with AD/ADNA option.

**Standard cord is 3 ft. (custom lengths available).

Outline and Dimensions

Dimensions are approximate and subject to change.



Hazardous Locations

Hazardous areas are those in which a potential for explosion or fire exists, due to the presence of certain gases, liquid vapors, combustible dusts or fiber particles suspended in the air. The National Electrical Code®, NEMA, OSHA, UL, NFPA Life Safety Standards, as well as State and Local codes, prescribe the use of emergency lighting equipment. This equipment itself must not contribute to the ignition of flammable or explosive substances, present in the location. Emergi-lite offers a complete line of emergency lighting equipment for use in hazardous locations.

Hazardous Location Classifications

Class I (NEC-500-5) Areas in which flammable gases or vapors may be present in sufficient quantities to be explosive or ignitable.

Class II (NEC-500-6) Areas made hazardous by the presence of combustible dust.

Class III (NEC-500-7) Areas in which there are easily ignitable fibers or flyings present, due to the type of material being handled, stored or processed-but in which such fibers or flyings are not likely to be in suspension in the air in quantities sufficient to produce ignitable mixtures.

Division 1 (NEC-500-5,6 & 7) **Normal Situation:** A hazard is present in the everyday normal production operation or during frequent repair and/or maintenance activity.

Division 2 (NEC-500-5,6 & 7) **Abnormal Situation:** Potentially hazardous material is expected to be safely confined within closed containers or closed systems, and will be present in the atmosphere only through accidental rupture, breakage, or abnormal operation.

Group A, B, C & D (NEC-500-3) **Gases and vapors in Class I locations** are classified into four groups, by the code A, B, C, and D. These materials are grouped according to the ignition temperature of the substance, its explosion pressure and other flammability characteristics.

Groups E, F & G (NEC-500-3) Combustible dust in Class II locations are classified according to ignition temperature and the conductivity of the hazardous substance.

Typical Class I Locations:

- Petroleum refineries, and gasoline storage and dispensing areas.
- Industrial firms that use flammable liquids in dip tanks for cleaning parts or other operations
- Petrochemical companies that manufacture chemicals from gas and oil.
- Dry cleaning plants where vapors from cleaning fluids can be present.
- Companies that have areas dedicated for spraying products with paint or plastics.
- Aircraft hangars and fuel servicing areas.
- Utility gas plants, and operations involving storage and handling of liquified petroleum gas or natural gas.

Typical Class II Locations:

- Grain elevators, flour and feed mills.
- Plants that manufacture, use or store magnesium or aluminum powders.
- Plants that have chemical or metallurgical processes, producers of plastics, medicines, and fireworks etc.
- Producers of starch or candies.
- Spice grinding plants, sugar plants and cocoa plants.
- Coal preparation plants and other carbon handling or processing areas.

Typical Class III Locations:

- Textile mills, cotton gins, cotton seed mills and flax processing plants.
- Clothing manufacturing plants
- Any plant that shapes pulverizes or cuts wood and creates saw dust or shavings.

FOR MORE INFORMATION CONSULT NEC CODE.

NEMA ENCLOSURES

Type 1 - Intended for use indoors primarily to prevent accidental contact of personnel with the enclosed equipment.

Type 2 - Intended for use indoors to protect the enclosed equipment against falling non-corrosive liquids and falling dirt.

Type 3 - Intended for use outdoors to protect the enclosed equipment against rain, windblown dust, sleet and external ice formation.

Type 3R - Intended for use outdoors to protect the enclosed equipment against falling rain, sleet and external ice formation.

Type 4 - Intended for use indoors and outdoors to protect the enclosed equipment against windblown dust, rain, splashing water and hose directed water.

Type 5 - Intended for indoor use primarily to protect against dust and falling dirt.

Type 6 - Intended for indoor or outdoor use primarily to provide a degree of protection against the entry of water during occasional temporary submersion at a limited depth.

Type 6P - Intended for indoor or outdoor use primarily to provide a degree of protection against the entry of water during prolonged submersion at a limited depth.

Type 7 - Intended for use indoors in locations classified as Class I, Groups A, B, C, or D as defined in the National Electrical Code®.

Type 8 - Intended for indoor or outdoor use in locations classified as Class I, Groups A, B, C, & D as defined in the National Electrical Code®.

Type 9 - Intended for indoor locations classified as Class II, Groups E, F & G, as defined in the National Electrical Code®.

Type 10 - Enclosures are constructed to meet the applicable requirements of the Mine Safety and Health Administration.

Type 11 - Intended for indoor use primarily to provide, by oil immersion, a degree of protection to enclosed equipment against the corrosive effects of liquids and gases.

Type 12 - Intended for indoor use primarily to provide a degree of protection against dust, falling dirt, and dripping noncorrosive liquids.

Type 12K - Enclosure with knockouts intended for indoor use primarily to provide a degree of protection against dust, falling dirt, and dripping non-corrosive liquids other than at knockouts.

Type 13 - Intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil, and noncorrosive coolant.



6 and 12 Volt, Class I Division 2 HZM Series

The **HZM Series** is designed to prevent ignition of hazardous materials. Applications include locations where flammable materials are stored and handled.

For Use in Hazardous Locations:

- Class I Division 2 Groups A, B, C and D,

Supplied with Diagnostics as Standard

Continuously monitors every critical function of the unit

UL Listed

Complies with NEC, Life Safety Code and OSHA.

Sealed Maintenance-Free Batteries

- Lead-Calcium

Applications

- Manufacturing Plants, • Chemical Plants, • Food Processing Areas*,
- Paint Shops, • Moisture, Dirt or Dust Concerns
- Wet or Corrosive Conditions

*Shatter resistant lamp coating optional

Standard Features

Reliability

The HZM Series comes complete with a 3-year full warranty, (excluding lamps, pilot lights and fuses).

Unit Data

The water and corrosion resistant cabinet is made of fiberglass reinforced polyester. The industrial gray cabinet is fully gasketed around the cover. The test switch and AC pilot light are explosion proof in design and exceed requirements for Class I, Division 2, Group A, B, C & D. The battery compartment is vented with a breather vent designed to permit exhaust of battery gases without admitting external moisture or corrosives. The standard HZM unit is furnished with two, EF11 weather resistant thermoplastic heads utilizing the 12 watt high intensity, sealed beam tungsten lamps. The lamps heads are constructed of impact resistant, flame retardant thermoplastic.

Charger

Fully automatic pulse charger offers 120/277 Vac, 60 Hz., 0.43/0.2 Amp., limited current temperature compensation, short circuit proof, reverse polarity protected, low voltage battery disconnect brownout protection and standard solid state transfer feature.

Standard Self-Diagnostics Circuitry

Will continuously monitor every critical function of the unit. If a problem occurs, a single fault indicator on the outside of the fixture flashes immediately. A detailed diagnostic display is located internally. The detailed display will further indicate the nature of the fault as either a battery fault, load fault or a charger fault.

Optional Features

Description

Add Suffix

Temperature Control 120 Volt Heater.....	-H1
Temperature Control 277 Volt Heater.....	-H2
Time delay (specify 5, 10 or 15 minutes).....	-D1, D2 or D3
Shatter resistant teflon coated lens	-TC

Accessories (order as a separate item)

Wire GuardWG3-E



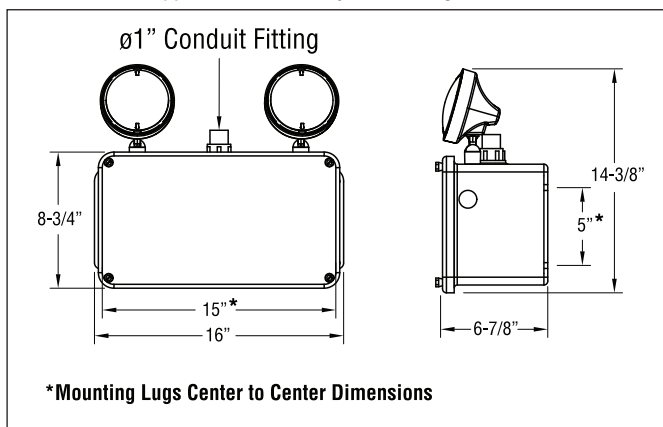
Unit Rating Chart

Furnished standard with two 12 watt High Intensity Sealed Beam Tungsten lamps.

UNIT EQUIPMENT - WITH REMOTE CAPABILITY						
Sealed Maintenance-Free Battery Types	D.C. Volt	Model Number	*Watts to 871/2% of rated battery voltage			
			1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.
Lead-Calcium	6	6HZM24-2	24	18	10	6
	12	12HZM56-2	56	37	21	12

Outline and Dimensions

Dimensions are approximate and subject to change.



How To Order (example)

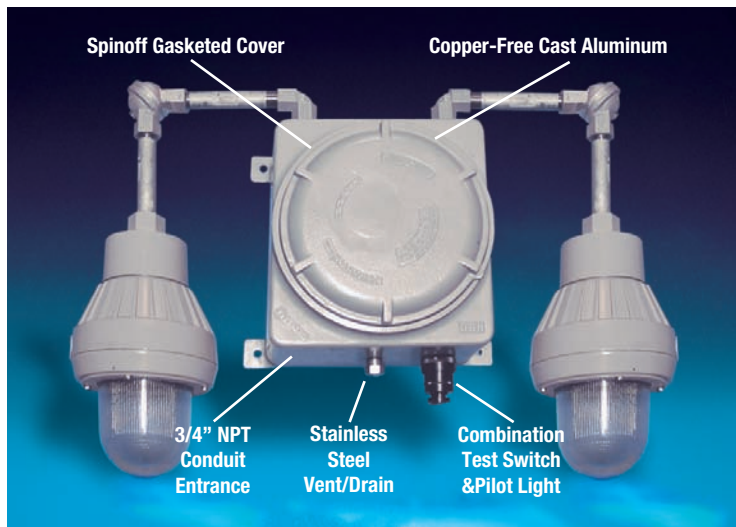
For standard units without options only order Model Number

Options are added to units by listing suffix at end of model #

12HZ	M	56	- 2	UE	- H1
Series	Battery Type	Watts for 90 min.	No. of Head on unit	Lamp Option*	Option
	Lead-Calcium			12V 12W HIT Incandescent	
				*see lamp data (HIT) sheet for other lamp wattages.	

NOTES: Includes standard lamp

EXC Series *6 and 12 Volt* Class I Div. 1 & 2 Class II Div. 1 & 2



The **EXC Series** is completely self-contained and weather resistant, maintenance-free Nickel-Cadmium power system which provides safe emergency lighting in hazardous area locations. Cast copper-free aluminum housing; gasketed cover spins off for easy access to battery and electronics. A variety of fixtures and exits are available for mounting either directly to the housing or remotely which offers complete job flexibility.

Applications

Meet the requirements of hazardous locations:
Class I Division 1 & 2 (Groups C & D)
Class II Division 1 & 2 (Groups E, F & G)

Sealed Maintenance-Free Batteries

- Nickel-Cadmium

Standard Features

Reliability

The **EXC Series** comes complete with a 3-year full warranty, (excluding lamps, pilot lights and fuses).

Unit Data

EXC Series has corrosion resistant, copper-free cast aluminum construction. A weatherproof gasketed spinoff cover, UL listed stainless steel vent/drain and silicone conformal coating on circuit board to protect electronics against humidity. Unit has capability of mounting up to 3 hazardous area fixtures direct to housing. Unit comes standard with epoxy finish for added corrosion protection in harsh environments.

Charger

Charger offers 120/277 Vac, 60 Hz., 0.3/0.15 Amp., 36 watt (other inputs available), fused DC output circuit, AC pilot light supervision, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection, lockout (automatic battery connect), solid state, current limited, constant current short circuit proof and reverse polarity protection.

Optional Features

Description

Time delay (specify 5, 10 or 15 minutes)-D1, D2 or D3

Add Suffix

Fixtures

The EXC Series may be supplied with 1, 2 or 3 hazardous fixtures mounted directly on the power unit and or remotely as the application dictates (for remote fixtures, consult hazardous area fixture data sheet).

Lamp Fixtures (EP Series) See page 48: Fully directional U.L. listed copper-free cast aluminum construction, swivel-mounted, pyrex* lens, complete with either 9, 18, or 25 watt HIT lamps(halogen optional).

Available with optional guard or reflectors. *Registered trademark of Corning Glass

Exit Fixtures (XP Series) See page 48: Mounted to the power unit, these exit signs are supplied standard with our unique integral transfer switch (TS) and utilize either a 6 volt 15 watt XX6 lamp or 12 volt-25 watt XX12 lamp. This enables the exit to operate in both the normal AC mode as well as the DC mode. The exit sign consists of an EP fixture coupled with a heavy duty steel, baked enamel finish exit shroud with ample downlight. Supplied standard as a single face sign, red stencil faceplate; double face and green stencil also available. For other legends consult factory.

Unit Rating Chart

UNIT EQUIPMENT - WITH REMOTE CAPABILITY						
Sealed Maintenance-Free Battery Types	D.C. Voltage	Model Number	*Watts to 871/2% of rated battery voltage			
			1 1/2 hrs.	2 hrs.	4 hrs.	8 hrs.
Nickel-Cadmium	6	EXC1	18	12	-	-
	6	EXC2	25	18	9	-
	6	EXC3	36	21	12	6
	6	EXC5	50	36	18	10
	12	1EXC3	36	21	12	6
	12	1EXC5	50	36	18	10
	12	1EXC7	72	42	24	12

*National Electrical Code Specification

Lamp Selection Chart

Lamp Type	Voltage	Watts	Replacement #	Suffix
High Intensity Tungsten (HIT)	6 V	9 W	135	IA
	6 V	18 W	136	IB
	6 V	25 W	137	IC
	12 V	9 W	138	IE
	12 V	18 W	139	IF
	12 V	25 W	140	IG
	BI-PIN Halogen	6 V	6 W	784
6 V		8 W	785	HB
6 V		10 W	787	HC
6 V		12 W	786	HD
12 V		8 W	774	HF
12 V		12 W	783	HG

Note: Units are supplied standard with appropriate wattage (HIT) high intensity tungsten lamps (unless otherwise specified). Alternate wattage lamps or halogen lamps may be substituted as required. For run times other than 90 minutes, refer to Unit Rating Chart Lamp Selection Table.

How To Order (example)

The **EXC Series** is available with a wide variety of fixtures, mountings, voltages, etc. To make your selection easier, we have listed the standard configurations in the chart below. When ordering exit fixtures, additional to the basic catalog number, you must specify single or double face and color of faceplate. Insert these suffix letters at the end of model number.

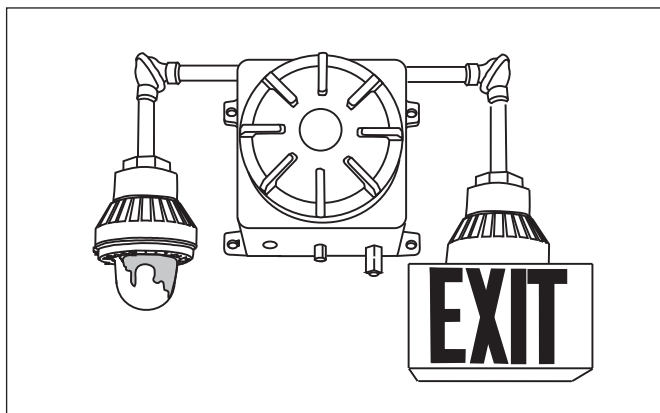
1EXC	7	2IE	- T1	S	R	- D1
Series	Wattage	No. of Fixtures	No. Exit Fixtures	No. of face	Faceplate	Option
EXC = 6V units 1EXC = 12V units	(72W)	(Lamp Type)	on unit	S = Single Face D = Double Face	R = Red G = Green	Time Delay

NOTE: Includes Standard Lamp.

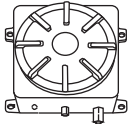
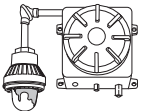
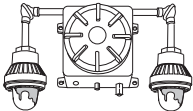
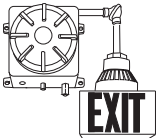
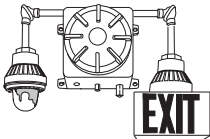
Outline and Dimensions

Housing: 12" X 12" X 9 1/2". (4) Mounting Lugs: 10" and 13 1/2" on center
Overall dimensions (including fixtures): 38" X 38" X 10"

Note: Dimensions are approximate and are subject to change.



Standard Configurations For EXC Series

Unit	Catalog Number	Description
 (Remote capability)	1EXC5-0 1EXC5-TS	12 volt, 50 watt self-contained hazardous area emergency lighting power unit complete with battery and charger. 12 volt, 50 watt self-contained hazardous area emergency lighting power unit complete with battery, charger and transfer switch.
	1EXC5-1IG 1EXC5-1IG-TS	12 volt, 50 watt, single head unit with 12 volt, 25 watt HIT lamp. 12 volt, 50 watt, single head unit with built-in transfer switch and 12 volt, 25 watt HIT lamp.
	EXC3-2IB EXC5-2IB-TS	6 volt, 36 watt, self-contained hazardous area emergency lighting power units complete with battery and charger. Fixture supplied with one (IB) 18 watt HIT lamp. 6 volt, 50 watt, double head unit with built-in transfer switch and 12 volt, 25 watt HIT lamp.
	EXC2-T1SR	6 volt, 25 watt, self-contained unit with integral low voltage transfer circuit (TS) to operate exit lamp in both normal and emergency modes. Suggested catalog number shown indicates single face exit with red stencil faceplate. For green, substitute G for R. For double face, substitute D for S.
	EXC5-1IC-T1SR	6 volt, 50 watt unit. In addition to the exit lamp which operates in both normal and emergency modes, emergency lighting can be achieved with (1) additional emergency lighting head. (Example: 1C = 25 watts).

Note: Above units are supplied with appropriate wattage (HIT) High Intensity Tungsten lamps (unless otherwise specified). Alternate wattages lamps or halogen lamps may be substituted as required. Exit provided with 25 watt lamps only.

EFEP Series Remote Explosion-Proof Lighting Fixtures

EFEPW = Wall bracket mount



14 lbs.

EFEPC = Ceiling mount



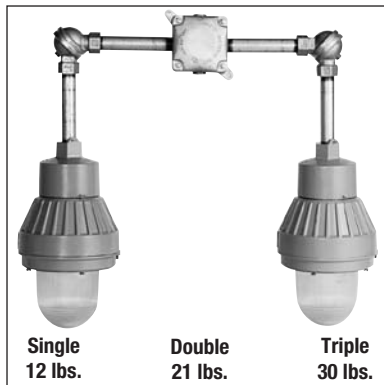
11 lbs.

EFEPF = Pendant Mount with hanger box & pendant



14 lbs.

EFEP1 = Single EFEP2 = Double EFEP3 = Triple



Single 12 lbs.

Double 21 lbs.

Triple 30 lbs.

For DC or AC Operation

The **EFEP Series** is designed for mounting in locations that are remote from their power source. They are offered with 6, 12 and 24 volt lamps for DC operation or 120 volt AC fixtures.

Applications - Listed for:

- Class I, Division 1 & 2, Groups C & D (300W PS-25 max)
- Class II, Division 1 & 2, Groups E, F & G (60W max)
- Class III, Division 1 & 2 (150 watt max)
- U.L. listed for use in Paint Spray Areas (75W max)
- Suitable for Wet Locations
- Complies with NEC, OSHA and NEMA specifications for all above Classes and Groups

General Information

EFEP Series units are designed for mounting in locations that are remote from their power source*.

**If power source is installed outside hazardous areas, the length of connection wires should be carefully considered to assure that voltage of emergency power unit and wire size of connecting circuit are adequate to offset voltage drop in circuit.*

All EFEP fixtures are manufactured of heavy cast aluminum with an epoxy finish and a Pyrex* lens. All attached hardware has been designed for explosion-proof application. EFEPF and EFEP1, 2 and 3 fixtures include elbows swivels, conduit extension pipe (6 inch increments), and combination explosion-proof junction box/mounting plate (4" box, 6 1/4" mounting center).

*Registered trademark of Corning Glass

Lamp Selection Chart

Lamp Type	Voltage	Watts	Replacement #	Suffix
High Intensity Tungsten (HIT) Double Contact Bayonet Base (Optional)	6 V	25 W	137	IC
	12 V	25 W	140	IG
	24 V	25 W	143	IK
Halogen (Optional)	6 V	12 W	786	HD
	12 V	12 W	783	HG

Optional Features

Description	Add Suffix
Guard	GXP
(One-piece aluminum casting construction, attaches to globe holder ring by four screws)	
Reflectors (dome)	RD
Reflectors (angle).....	RA
(Highly reflective white finish inside and out. Attaches to globe holder ring by four screws)	

How To Order (example)

For standard units without options only order Model Number

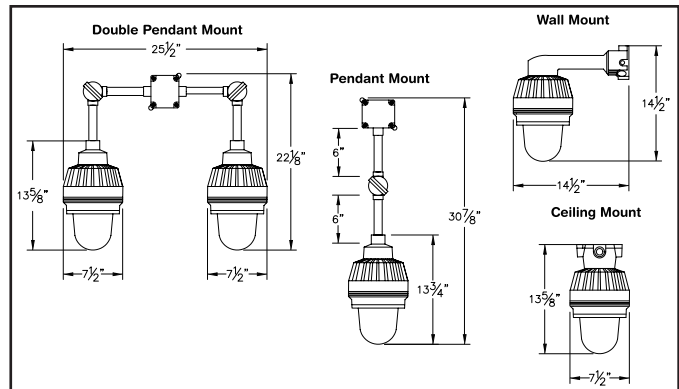
Options are added to units by listing suffix at end of model #

EFEP	- P	- (IC)	- GXP	- 6
Series	Mounting	Lamp Option*	Option Guard	Pendant Length**
	- P = Pendant - W = Wall - C = Ceiling	6V 25W (HIT)		
	- 2 = 2 Remote Pendant - 3 = Triple Remote Pendant	*see lamp data for other lamp wattages.		**6" pendant supplied if not otherwise specified

NOTE: Includes standard lamp

Outline and Dimensions

Dimensions are approximate and subject to change



Options



Description

Guard

Add Suffix

.....GXP
One-piece aluminum casting construction, attaches to globe holder ring with four screws.



Description

Dome Reflector

Add Suffix

.....RD
Highly reflective white finish inside and out, attaches to globe holder ring with four screws.



Description

Angle Reflector.....

Add Suffix

.....RA
Highly reflective white finish inside and out, attaches to globe holder ring with four screws.

Explosion-Proof Remote Exit Fixtures **EFPX Series**

The **EFPX Series** is designed for mounting in locations that are remote from their power source. They are offered with 6, 12 and 24 volt lamps for DC operation or 120 volt AC fixtures.

Applications - Meet the requirements of:

- Class I, Division 1 & 2, Groups C & D (300W PS-25 max)
- Class II, Division 1 & 2, Groups E, F & G (60W max)
- Class III, Division 1 & 2 (150W max)
- U.L. listed for use in Paint Spray Areas (75W max)
- Suitable for Wet Locations
- Complies with NEC, OSHA and NEMA specifications for all above Classes and Groups

General Information (LPG 127,5)

EFPX Series units are designed for mounting in locations that are remote from their power source*.

*If power source is installed outside hazardous areas, the length of connection wires should be carefully considered to assure that voltage of emergency power unit and wire size of connecting circuit are adequate to offset voltage drop in circuit.

Exits shown are explosion-proof fixtures of heavy cast aluminum construction with Pyrex* lenses. Exit housing is 18 gauge fabricated steel box with a baked enamel finish. Stenciled exit lettering is available on one or two faces. All EFPX Series have extra large downlight openings.

*Registered trademark of Corning Glass

Optional Features

Description

Open face panels with special symbols or legends.Contact Factory
 3 sided exit face triangle3F
 (Unbreakable 3 sided white acrylic triangle with easy mounting to regular explosion-proof lighting fixture. Open design permits full air circulation for cool operation and provides excellent down light. 6" high EXIT letters with red 3/4" stroke on white background meets all safety specification. Directional Arrows included).

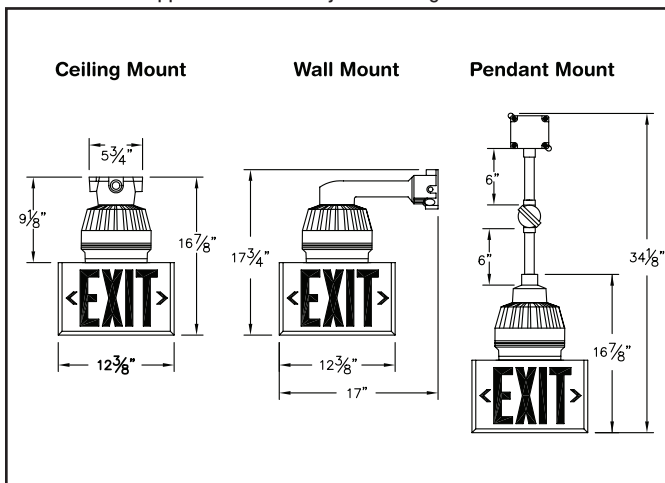
Add Suffix

Lamp Selection Chart

Lamp Type	Voltage	Power	Lamp Type	Average Life (hours)	Suffix
Quartz Bi-Pin	6V	15W	JC-6V15W	2,000	XX6
	12V	25W	25A-12	1,000	XX12
Medium Base	24V	25W	143A	1,000	XX24
	120V	25W	A19	2,500	AC

Dimensions

Dimensions are Approximate and Subject to change



EFPXC=Ceiling Mount



EFPXP=Adjustable Pendant Mount



EFPXW=Wall Bracket Mount

Transfer Circuit (not designed for hazardous areas)

TS panels should be considered for remote explosion-proof fixtures that are NORMALLY ON as constant operation fixtures.

Panels are available for 25, 50, 75, or 100 watt. Maximum load (6V max. 50W, 12V max. 100W, 24V max. 200W) .

To Order Model TS

To make the proper TS selection, the following information is required:

- 1) DC output voltage of emergency lighting system MUST be matched to DC input of TS panel load.
- 2) Number of fixtures to be connected to TS panel.
- 3) Total wattage of fixtures to be connected to TS panel.

NOTE: For normally-on applications (e.g. exit signs) use only long-life lamp (XX) Series.

How to Order Transfer Panel

120 - 12 - TS - 50
 AC DC Model Watts
 Input Output

(For multi-phase monitoring, contact factory)

Mounting

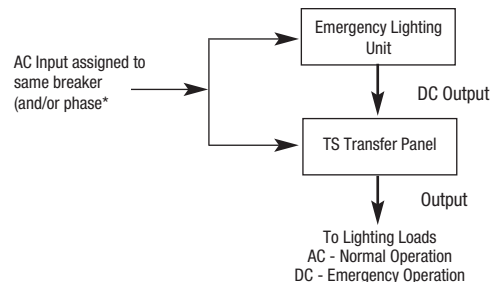
The transfer circuit is not designed for use in hazardous or explosive areas. The transfer circuit is to be mounted remotely from hazardous areas.

Electrical Specifications for Transfer Panel

Input Voltage: From AC - 120 Volt, 60Hz, 1 phase (other voltages available).
 From DC - 6, 12, 24 or 120 Volt (select).

Output Voltage: Must be identical to DC Input Voltage

Wattage: Panel oversized 10-20% greater than total connected load.



How To Order (example)

For standard units without options only order Model Number

Options are added to units by listing suffix at end of model #

EFPX	- C	- (IC)	- 2	- R
Series	Mounting	Lamp Option*	No. of Faces	Color
	- P = Pendant	*see lamp data sheet for other lamp wattages.	- 1 = One Face	- R = Red
	- W = Wall		- 2 = Two Faces	- G = Green
	- C = Ceiling			

NOTE: Includes standard lamp
 NOTE: 6" pendant supplied if not otherwise specified

EXPK Series *Harsh Environment Enclosure*



Standard Features

Reliability

The **EXPK Series** comes complete with a 3-year full warranty (excluding lamps and fuses).

Enclosure Data

Unit is built into a U.L. Listed NEMA enclosure that is weather and corrosion resistant. Enclosures include a uniformly illuminated polycarbonate face, sealed push-to-test switch and special venting system. EXPK exits are available in single or double face. EXPK SNX, SOX/STX is available single face only and includes two EF-11 heads.

Two Rate Constant-Current Charger

Charger offers 120/277 Vac input, 60 Hz., 0.3/0.15 Amp, 30 watts (other inputs available), fused output circuit(s), long-life LED indicator AC light, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

LED Light Source (Red on White only).....LED

EXPK SOX/STX only

Temperature Control 120V Heater-H1

Temperature Control 277V Heater-H2

Description

Time Delay (Specify 5, 10 or 15 minutes)-D1, D2 or D3

Non-standard input voltage.....specify

Tamperproof Locking Screw (2 screws provided).....-TPS(-)T

Tamperproof Wrench (required for TPS assembly).....-TPW

Battery Disconnect Switch (SNX only).....-B

EXPK only

Flasher (DC operation only)-FL

Wire Guard (EXPK NEMA 4X wall mount only).....WG9-E

Wire Guard (EXPK SOX/STX wall mount only).....WG4-E

Accessories (order as a separate item)

Wire Guard (wall mount only)WG4-E

Special Exit Facescontact factory

EXPK SOX/STX only

Single EF-11** par 36 6 volt 6 watt lamp head mounted1

Double EF-11** par 36 6 volt 6 watt lamp head mounted2

**Halogen sealed beam lamp standard.

See lamp data sheet for other lamps

Special Phrasing

A variety of faces customized to individual requirements are available.

Contact factory for your special requirements.

The **EXPK Series** is designed specifically for industrial applications involving severely corrosive or wet environments. It is ideally suited for areas such as processing plants, marine locations, chemical plants.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Approved for use in the Commonwealth of Pennsylvania.

Light Sources

- Incandescent
- **Even Illumination Red LED Light Source Uses Only 2 Watts**

Sealed Maintenance-Free Batteries

- Nickel-Cadmium

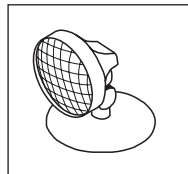
Optional Lamps

All exits are furnished complete with 2 AC lamps and 2 DC lamps if required. 6, 12, and 24 volt lamps are 3 watt standard. Optional 5 watt lamps available. (Specify Suffix)

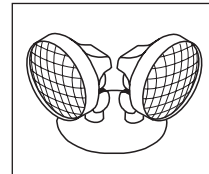
Lamp Type	Voltage	Watts	Catalog #	Add Suffix
AC 15T6145 Candelabra Base	120 V	12 W	570.0013	-
DC Self-Powered Wedge Base	6 V	3 W	570.0015	-
EXPK enclosure only DC Remote Powered Wedge Base	6 V	3 W	570.0015	-
	12 V	3 W	570.0043	(ZE)
	12 V	5 W	570.0100	(ZJ)
	24 V	3 W	570.0101	(ZI)
EXPK enclosure only DC Remote Powered (DCBB) Double Contact Bayonet Base	24 V	5 W	570.0072	(ZK)
	6 V	5 W	570.0017	(JD)
	32 V	5 W	570.0082	(JG)

Typical Remote Fixtures

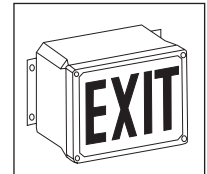
EXPK Series units have the capability to be combined with remote fixtures. For example:



EF-11(XA)
Weather Resistant head with mounting plate.
6 watts



EF-11D(XA)
Twin Weather resistant heads with mounting plate.
6 watt x 2= 12 watts

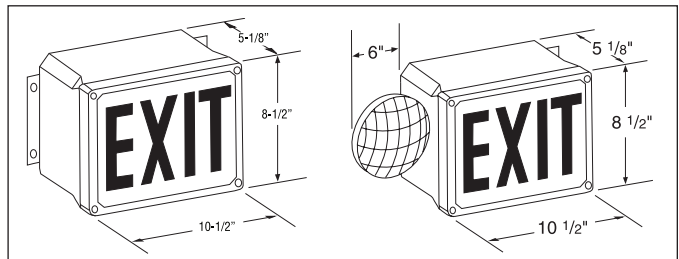


EXPK
Weather and chemical resistant exit sign.
6 watts DC per exit

For other remote fixtures available, see lighting fixture section.

Outline and Dimensions

Dimensions are approximate and subject to change.





How To Order

EXPK exit signs are available in a wide variety of types, mountings, faceplates, voltages, etc. To make your selection easier, we have listed the standard configurations in the chart below. When ordering, and in addition to the basic catalog number, you must specify the color of faceplate as indicated at right. Insert these suffix letters in the space provided by the asterisk (*). Add options to end of model number. As an example:

12	LED	EXPK	E	-	277	-	*RW	-	D1
DC Volt Blank= AC Only 6= 6V 12= 12V 24= 24V	Light Source Blank= Incan. PI= Fluorescent LED= LED	Series	Mounting (End)	AC Volt (277V)	Letters Red Letter/ White Background		Option Time Delay See optional features		

Includes standard lamp

*Faceplate Selection





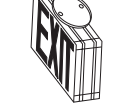
Description

Red (letters)/White (background).....	RW
White (letters)/Red (background).....	WR
Green (letters)/White (background).....	GW
White (letters)/Green (background).....	WG

Add Suffix




Standard Configurations For EXPK

Note: Specify faceplate color and arrows where asterisk(*) are noted.

Model	AC Exit		AC/DC Exit (Numerical Prefix Denotes DC Voltage)		Self-Powered Exit
	120 Volt	277 Volt	120 Volt	277 Volt	120/277 Volt
Single Face/Wall Mount 	EXPK-120-**-*	EXPK-277-**-*	6EXPK-120-**-*	6EXPK-277-**-*	EXPK-SNX-**-*
12EXPK-120-**-*			12EXPK-277-**-*		
24EXPK-120-**-*			24EXPK-277-**-*		
32EXPK-120-**-*			32EXPK-277-**-*		
120EXPK-120-**-*			120EXPK-277-**-*		
Single Face/End Mount 	EXPKE-120-**-*	EXPKE-277-**-*	6EXPKE-120-**-*	6EXPKE-277-**-*	EXPKE-SNX-**-*
12EXPKE-120-**-*			12EXPKE-277-**-*		
24EXPKE-120-**-*			24EXPKE-277-**-*		
32EXPKE-120-**-*			32EXPKE-277-**-*		
120EXPKE-120-**-*			120EXPKE-277-**-*		
Single Face/Ceiling Mount 	EXPKC-120-**-*	EXPKC-277-**-*	6EXPKC-120-**-*	6EXPKC-277-**-*	EXPKC-SNX-**-*
12EXPKC-120-**-*			12EXPKC-277-**-*		
24EXPKC-120-**-*			24EXPKC-277-**-*		
32EXPKC-120-**-*			32EXPKC-277-**-*		
120EXPKC-120-**-*			120EXPKC-277-**-*		
Double Mount/End Mount 	EXPK2E-120-**-*	EXPK2E-277-**-*	6EXPK2E-120-**-*	6EXPK2E-277-**-*	Not Available
12EXPK2E-120-**-*			12EXPK2E-277-**-*		
24EXPK2E-120-**-*			24EXPK2E-277-**-*		
32EXPK2E-120-**-*			32EXPK2E-277-**-*		
120EXPK2E-120-**-*			120EXPK2E-277-**-*		
Double Face/Ceiling Mount 	EXPK2C-120-**-*	EXPK2C-277-**-*	6EXPK2C-120-**-*	6EXPK2C-277-**-*	Not Available
12EXPK2C-120-**-*			12EXPK2C-277-**-*		
24EXPK2C-120-**-*			24EXPK2C-277-**-*		
32EXPK2C-120-**-*			32EXPK2C-277-**-*		
120EXPK2C-120-**-*			120EXPK2C-277-**-*		

Standard Configurations for EXPK-SOX/STX Series

Note: Specify faceplate color where asterisk (*) are noted.

Model	# of Heads mounted to exit signs	SOX Series	Remote Wattage Capacity 6 volts	STX Series	Remote Wattage Capacity 6 volts
Wall Mounted 	0	EXPK-SOX-*	12	EXPK-STX-*	18
	1	EXPK-SOX-**-1	6	EXPK-STX-**-1	12
	2	EXPK-SOX-**-2	0	EXPK-STX-**-2	6
Ceiling Mounted 	0	EXPKC-SOX-*	12	EXPKC-STX-*	18
	1	EXPKC-SOX-**-1	6	EXPKC-STX-**-1	12
	2	EXPKC-SOX-**-2	0	EXPKC-STX-**-2	6
End Mounted 	0	EXPKE-SOX-**-2	12	EXPKE-STX-*	18
	1	EXPKE-SOX	6	EXPKE-STX-**-1	12
	-		-		-

Survive-All SV Series

6 and 12 Volt Nema 4X Battery Unit



The **Survive-All SV Series** battery units combines state-of-the art illumination with a visually appealing package and are designed to perform in a wide range of commercial and industrial environments where humidity, dust, water infiltration and the risk of vandalism are specification criteria.

UL Listed

Sealed Maintenance-Free Batteries

- Lead-Calcium
- Nickel-Cadmium (UL Listed for damp and wet locations)

Mounting

Wall, Strut or Beam (see diagram on page 53)

Certifications

- Certified to meet UL924 standards
- 90 minutes of emergency operation
- NEMA-4X Rated for high abuse areas, wet locations and cold weather (-40PC/-40PF) applications
- NSF Certified for use in food processing plants

PATENT PENDING



Standard Features

Reliability

The **SV Series** comes complete with a 3-year full warranty (excluding lamps and fuses)

Unit Data

This unit has a fully gasketed cast aluminum back plate with clear, UV resistant polycarbonate cover. Tamper-proof screws and bit are supplied with the unit. The **SV Series** is equipped with a tool-less MR16 swivel lamp assembly that will provide precise beam control. Choice of MR16 halogen lamps from 6V to 12V and 6 watt to 20 watt-IR. Choice of three different colors, black, white and gray.

Charger

Standard 120/277 Vac 0.3/0.15 Amp input. Non-audible advanced diagnostic charger board, 15 minute time delay and lamp disconnect are all standard features. Audible warning and time delay functions can be enabled or disabled during installation. Non-obtrusive, magnetic test switch. Micro-controller diagnostic system tests, detects and indicates battery, charger circuitry or MR16 lamp failures.

Optional Features

Description

Cold weather location (-40°C to +40°C) (-40°F to +104°F).....-CW4*

*Only available 12SV24M and 12SV36M Lead-Calcium battery.

Add Suffix

Accessories (order as a separate item)

Additional bit for tamperproof screwsTPB

Universal bracket (for mounting on poles, I-beams

or strut metal framing)PMK-E

Applications

- Hosedown areas / car washes
- Food processing / preparation facilities
- Marine locations
- Chemical plants
- Schools and other public facilities
- Parking garages
- Transit platforms
- Sports arenas / swimming pools
- Security areas / prisons
- Warehouse and cold storage facilities
- Heavy industrial facilities

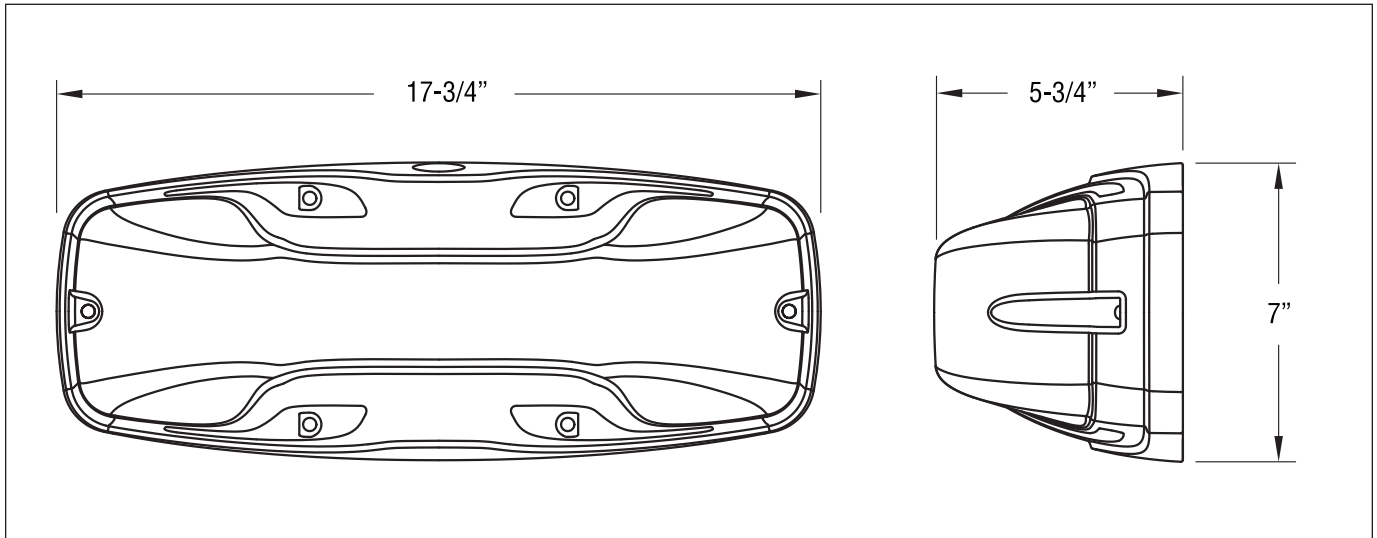
Unit Rating Chart

UNIT EQUIPMENT - WITH REMOTE CAPABILITY				
Sealed Maintenance-Free Battery Types	*Watts to 871/2% of rated battery voltage			
	1 1/2 hrs.	2hrs.	3hrs.	4 hrs.
Lead-Calcium	18	12	-	-
	24	16	12	-
	36	24	20	14
	54	36	27	20
Nickel-Cadmium	24	18	12	-
	40	30	20	15
Nickel Metal Hydride	60	45	30	20

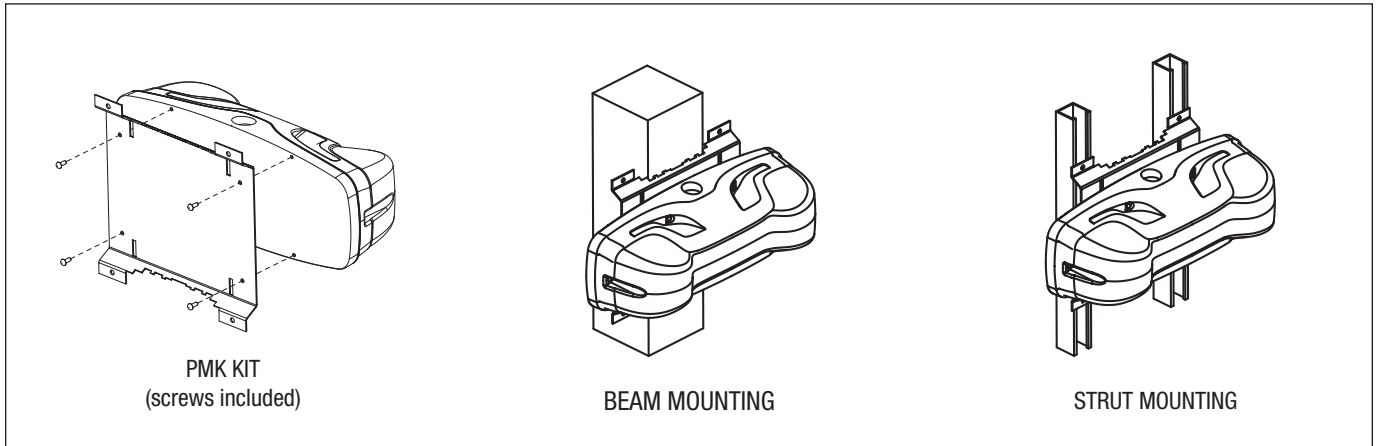
*National Electrical Code Specification

Outline and Dimensions

Dimensions are approximate and subject to change.



Universal Bracket



How To Order MODEL EXAMPLE:

B	12SV36M	-2	MK	-D	Options
<i>Color</i>	<i>Series</i>	<i># of Heads</i>	<i>Lamps</i>	<i>Charger</i>	
B =Black	SV18M =6V-18W, Lead-Calcium	-2 =2 heads	L =LED 12V-5W	-D =Autodiagnostic Non-Audible (standard)	Blank =No Options
G =Gray	12SV24M =12V- 24W, Lead-Calcium		MI =6V-6W, MR16	-DA =Autodiagnostic Audible	CW4 =Cold Weather* (-40°C to +40°C) (-40°F to +104°F)
W =Whist	12SV36M =12V- 36W, Lead-Calcium		MK =12V-12W, MR16		* Only available with 12SV24M & 12SV36M
	12SV54M =12V- 54W, Lead-Calcium		MW =12V-20W, MR16-IR		
	12SV24N =12V- 24W, Nickel-Cadmium				
	12SV40N =12V- 40W, Nickel-Cadmium				
	12SV60H =12V- 60W, NIMH				

Survive-All SVX Combo Series

6 and
12 Volt



The **Survive-All SVX Series** combo unit delivers impressive, state-of-the-art illumination in a visually-appealing package. Designed for use in a wide range of commercial and industrial environments where humidity, dust, water infiltration and vandalism are specification criteria.

UL Listed

Listed for wet and damp locations (+10PC/+40PC)

Light Sources

- Exit light source LED, light-emitting diodes
- Red LED's of ALINGAP technology

Sealed Maintenance-Free Batteries

- Nickel-Cadmium

PATENT PENDING

Applications

- Hosedown areas / car washes
- Food processing / preparation facilities
- Marine locations
- Chemical plants
- Schools and other public facilities
- Parking garages
- Transit platforms
- Sports arenas / swimming pools
- Security areas / prisons
- Warehouse and cold storage facilities
- Heavy industrial facilities

Standard Features

Reliability

The Survive-All SVX Combo Series has a 5-year full warranty (excluding lamps and fuses).

Unit Data - NEMA 4X Rated

The rugged PVC body will not dent, peel or corrode. The sealed faceplate is constructed with a heavy duty, vandal-resistant polycarbonate cover and fastened with stainless steel tamper-resistant screws. The test switch is magnetically operated. Models can be wall, end or ceiling mounted. The innovative, fully field adjustable lamp head assembly offers the option of selecting either an MR16 lamp or a high efficiency 5-Watt, white LED light source for optimum illumination over the path of egress.

To order exit only SVX Series see page 56.

Optional Features

Description

Add Suffix

- Cold weather location (-40°C to +25°C) (-40°F to +77°F).....-CW4*
 Fire alarm activated flasher.....-FA
 Flasher/Buzzer (AC power failure).....-F/B**
 Flasher (AC power failure).....-FL
 Canopy Pendant Mount.....-CM

*Available in 12N1 version only.

**Not available with DA option.

Accessories (order as a separate item)

Additional special bit for tamper-proof screws.....TPB

Unit Rating Chart

Furnished standard with two 9 watt High Intensity Incandescent lamps.

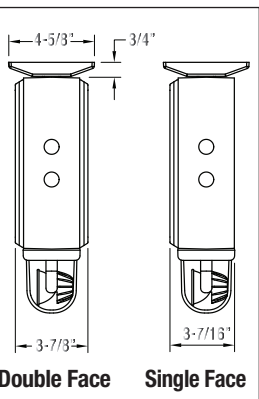
UNIT EQUIPMENT - WITH REMOTE CAPABILITY				
Sealed Maintenance-Free Battery Types	*Watts to 871/2% of rated battery voltage			
	11/2 hrs.	2hrs.	3hrs.	4 hrs.
Nickel-Cadmium	12	9	-	-
	24	18	12	-

*National Electrical Code Specification

How To Order (example)

WW	SVX Series	12N Capacity	1 Faces	R Letter Color	DA Diagnostics	4X Housing	2 # of Heads	MI Lamp/Wattage	CW4 Options
Housing/Face Color WW=White/White WB=White/Black WA=White/Aluminum BB=Black/Black BW=Black/White BA=Black/Aluminum GA=Gray/Aluminum GW=Gray/White GB=Gray/Black		12N=6V-12V 24N=12V-24V	1=Single Face 2=Double Face	R=Red Letters G=Green Letters	D=Advanced Diagnostics Non-audible (standard) DA=Advanced Diagnostics Audible	4X=Nema 4X	Blank=0 Heads* 2=Two Heads	MI=MR16, 6V-6W MK=MR16, 12V-12W L=LED, 12V-5W	*CW4=Cold Weather FA=Flasher (fire alarm activated) **F/B=Flasher/Buzzer (A.C. power failure) FL=Flasher (A.C. power failure) ***-208V=208Vac, 60Hz input ***-240V=240Vac, 60Hz input ***-220V50HZ=220Vac, 50Hz input

* Remote lamp(s) must be connected



* Dimensions without heads

Double Face Single Face

NOTE: Test magnet# 199.0133-E



Exit Series

Survive-All SVX Series	56
Prestige X40 Edge-Lit Series (Flat Trim Plate)	57
Prestige Edge-Lit Series (Universal)	58-59
Prestige Floor Proximity Series	60-61
Prestige DX Series	62
NEW Prestige Economizer Series	63
Preceptor Series	64
Preceptor Remote Capacity Series	65
EC Series (Escort)	66
Escort Mini Systems	67
X30 Series (Escort)	68
X10 Incandescent Series	69
X10 LED Series	70
NEW ELX-MRS Series (Escort II)	71
ELX400 SQ Series (Escort II)	72
EverLite Self-Luminous Series	73
Special Wording Configurations	74
QuickSwitch LED Replacement Lamps / LED Retrofit Kits	75

Survive-All SVX Series



The *Survive-All SVX Series* is designed specifically for high abuse areas, wet locations, and cold weather (-20C°) (-4F°) applications. It is ideally suited for schools, parking garages, public areas, transit platforms, and security areas/prisons.

Self-Powered Exit Sign standard with Diagnostic/Self-Test circuitry

UL Listed

Complies with NEC, life safety Code and OSHA

Light Sources

- LED, Light Emitting Diodes, red LED's of ALINGAP technology

Sealed Maintenance-Free Batteries

- Nickel-Cadmium

Applications

- High Abuse Areas • Vandal Prone Areas • Damp and Wet Locations
- NEMA-4X Rated • Hose Down Areas • Cold Temperatures
- Food Processing/Preparation

Standard Features

Reliability

The *Survive-All SVX Series* has a 5-year full warranty.

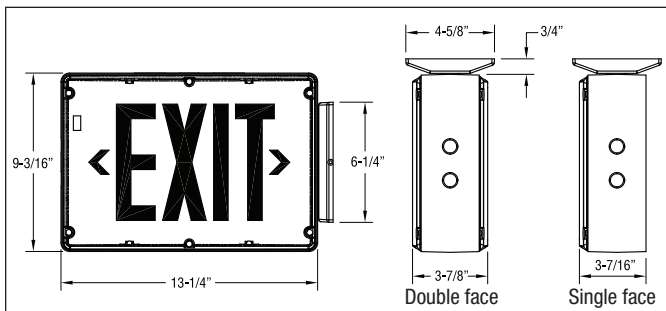
Unit Data - NEMA 4X Rated

Rugged polyvinyl chloride body, will not dent, peel, rust or corrode. The sealed faceplate is constructed of heavy duty, vandal resistant polycarbonate and features an evenly illuminated legend. The fully gasketed faceplate is fastened with stainless steel tamper-resistant screws. Magnetically operated test switch. Models can be wall, end or ceiling mounted. Legend and chevron complies with UL and CSA requirements. To order combo unit see page 54.

Survive-All SVX Series signs are unaffected by the vibrations, ambient temperature swings and typical power surges detrimental to standard exit light sources.

Outline and Dimensions

Dimensions are approximate and subject to change.



Power Consumption

Model	AC Specs		DC Specs	
	Voltage	Power	Voltage	Runtime
AC-only	120 to 277 Vac	1.2 W	-	-
AC/DC	120 to 277 Vac	1.2 W	6 to 24Vdc	Less than 1.5 W
Self-powered	120 to 277 Vac	3.7 W	NiCad battery	Min. 90 minutes

How To Order (example)

BB	SVXN	1	R	- D	- 4X	- FA
Color Option, Housing/Face	Series (120/277 Volt)	Faces	Legend colors	Diagnostics	Housing	Options
BB = Black/Black	SVX = AC-only	1 = Single face	R = Red	Standard on	NEMA 4X	See Optional Features
BW = Black/White	SVXN = Self-powered	2 = Double face	G = Green	all self-powered	housing standard	
BA = Black/Aluminum	Nickel-Cadmium Battery			Models		
GB = Gray/Black						
GW = Gray/White						
GA = Gray/Aluminum						
WB = White/Black						
WW = White/White						
WA = White/Aluminum						

High Performance Circuitry

- Self Contained... Batteries & circuitry located inside the exit housing.
- Continuous self-diagnostic monitoring and monthly self testing.
- Fully automatic charger is solid state.
- AC, AC/DC and Self-Powered Models have universal, 2-wire input 120V to 277Vac 50/60 Hz.
- Sealed, maintenance-free Nickel-Cadmium battery provides 90 minutes of emergency operation.
- Batteries recharge per UL924 requirements.
- Each unit comes standard with one tamper-proof driver bit. To order extra: part #690.0454

Diagnostic / Self Test Feature (Standard)

Diagnostic / Self Test circuitry is standard on all self-powered models. This circuitry is programmed to ensure the exits readiness and reliability by continuously monitoring every critical function of the unit. If a problem occurs, a single "Service Required" indicator illuminates immediately. A detailed diagnostic display is located on the inside of the exit sign, out of sight from the general public. The detailed diagnostic display inside the exit sign will further indicate the nature of the fault. The self test will test the unit for 30 seconds every 30 days, 30 minutes every 60 days and 90 minutes annually

Optional Features

Description	Add Suffix
AC/DC (6-48Vdc)	-DC
Cold Weather (-20°C)(-4°F) (Self-Powered)	-CW
2 Circuit (120/120 or 277/277)	-2CKT*
Fire Alarm Activated Flasher (Self-Powered Only)	-FA
Flasher/Buzzer (Self-Powered Only)	-FB
Canopy Pendant Mount	-CM
Special Wordings (Contact Factory)	

* AC Units only. Accessories (order as a separate item)

Tamper-Proof Bit	part # 690.0454-E
Convert single to double face, red	DFKR
Convert single face to double face, green	DFKG



X40 Recessed Ceiling Only **Prestige Series**

Premium Die Cast Flat Trim Plate Edge-Lit Exit Sign

X40 Prestige Series is designed for recessed ceiling mounting applications requiring a flat trim plate. Available in AC-Only and Self-Powered models. For recessed wall mounted signs see page 56, 57.

Evaluated to UL 924 Standard

Light Sources

- LED, Light Emitting Diodes, red LED's of ALINGAP technology

Sealed Maintenance-Free Batteries

- Nickel-Cadmium

Standard Features

Reliability: The X40 Prestige Series has a 5-year full warranty.

Unit Data: The clear acrylic panel is silk screened and computer engraved. The rugged cast brushed aluminum trim plate (optional colors available) is designed to fit integrally with a 20 gauge steel back box. Each unit includes a bar hanger kit.

Charger: Circuitry offers 120/277Vac input, fully automatic charger, temperature compensated charger, sealed relay, low voltage battery disconnect, and brownout protection.

Diagnostic / Self Test Feature (optional)

Diagnostic / Self Test circuitry is standard on all self-powered models. This circuitry is programmed to ensure the exits readiness and reliability by continuously monitoring every critical function of the unit. If a problem occurs, a single FAULT indicator illuminates immediately. A detailed diagnostic display is located on the inside of the exit sign, out of sight from the general public. The detailed diagnostic display inside the exit sign will further indicate the nature of the fault. The self test will test the unit for 30 seconds every 30 days, 30 minutes every 60 days and 90 minutes annually.

Advanced Optical Technique

The Prestige Series is designed to achieve superior visual clarity and performance with an LED light Source.

- High brightness LEDs transmit light directly into both ends of a unique U-shaped panel.
- Virgin acrylic panel provides optimum light transmission.
- LED sensitive inks are formulated to provide a rich color in red or green.
- Computer engraving is used to crisply define each letter and chevron.
- Choice of legend background includes: Clear (for single face), White or Mirror (for single or double face signs).
- Illumination is 100% in both AC and the emergency mode.

Arrow (Chevron) Designation



Arrow Right (AR)



Arrow Left (AL)



Double Arrow (DA)



Arrow Right & Left (ARL) Represents each side of a double face panel.

*Wording and chevron's not to scale. Illustration purposes only.

How To Order (example)

W	LSNX	42	RC	AR	-D
<i>Trim Plate Color</i>	<i>Model</i>	<i>Number of faces</i>	<i>Letter/background colors</i>	<i>Arrow designation</i>	<i>Options</i>
Blank = Brushed aluminum	LX = AC-only	42 = Single face	RC* = Red on clear	Blank = No arrow	See optional features
B = Black	LSNX = Self-powered	43 = Double face	RW = Red on white	AR = Arrow right	
W = White			RM = Red on mirror	AL = Arrow left	
BR = Dark bronze			GC* = Green on clear	DA = Double arrow	
PB = Polished brass			GW = Green on white	ARL = Arrow right and left, used on double face signs with one arrow on each side	
CH = Chrome			GM = Green on mirror		
			<i>*Available single face only</i>		



LED Light Source Benefits

Low Energy Consumption: LED lamps consume less than 3 watts, per sign, single or double face, AC-only or self-powered.

No Maintenance Cost: Long life LED's eliminate twice-a-year relamping typical of incandescent lamps.

Reliability: Prestige LED Series signs are unaffected by the vibrations, ambient temperature swings and typical power surges detrimental to standard exit light sources.

Optional Features

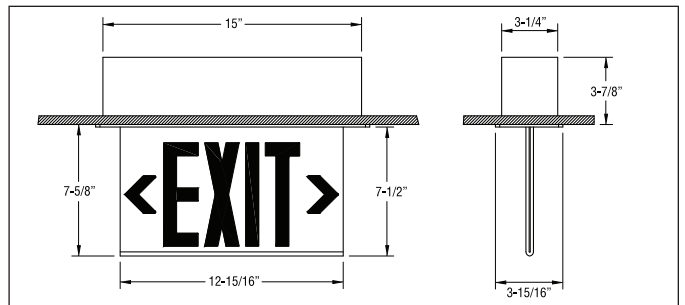
Description	Add Suffix
8" lettering for NYC code	-8
Dual circuit operation (AC-only)	-2CKT
Self Testing/Self Diagnostic (self-powered only)	-D
Special Wording	Contact Factory

Accessories (order as a separate item)

Two 27" adjustable bar hangers*TBH
*Bar hangers supplied with unit, order as replacement only.

Outline and Dimensions

Dimensions are approximate and subject to change.



Power Consumption

Model	AC Specs		DC Specs	
AC-only	120 to 277 Vac	2 W	-	-
AC/DC	120 to 277 Vac	2 W	6 to 24 VDC	Less than 2 W
Self-powered	120 to 277 Vac	2.5 W	NiCad battery	Min. 90 minutes



Premium Die Cast Edge-Lit Exit Sign

The *Prestige Series* combines the efficiency of an LED light source with an elegant die cast design to add high performance and style to your next exit sign application. Universal models include all the components for recessed or surface mounting.

Evaluated to UL 924 Standard

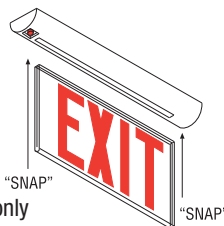
Light Sources • LED, Light Emitting Diodes, red LED's of ALINGAP technology

Sealed Maintenance-Free Batteries • Nickel-Cadmium

Specification Flexibility

Specification is made easy with a choice of models and options designed for their flexibility to accommodate a variety of application requirements.

- Modular design of die cast components allow for surface or recessed mounting without changing the aesthetic design of the spec.
- All mounting configurations use the same basic components. Inserting a trim ring allows for recessed mounting on walls or ceilings. Using a canopy allows for surface mounting on ceilings or walls as back or end mount.
- Face panels snap securely into trim plate on all mounting configurations.
- Standard finish is brushed aluminum for the housing, trim ring, trim plate and canopy.
- Clean trim plate design eliminates visible fasteners.
- Choice of trim plates: Circular or Angular.
- Universal 120 through 277Vac, 50/60 Hz for AC-only and Self-powered models.
- Self-powered models have a sealed maintenance-free Nickel-Cadmium battery that provides 90 minutes of emergency illumination.
- Combination test switch/pilot light.
- 27" Bar Hangers are included with all recessed and universal models
- Energy Star compliant.



Reliability

- The Prestige edge-lit, LED series has a 5-year full warranty.

Advanced Optical Technique

The LX Series is designed to achieve superior visual clarity and performance with an LED light source.

- Two rows of high brightness LEDs transmit light directly into both ends of a unique U-shaped panel.
- Virgin acrylic panel provide optimum light transmission.
- LED sensitive inks are formulated to provide a rich color in red or green.
- Computer engraving is used to crisply define each letter and chevron.
- Choice of legend background includes: Clear (for single face), White or Mirror (for single or double face signs).
- Illumination is 100% in both AC and the emergency mode.

Arrow (Chevron) Designation



Arrow Right (AR)



Arrow Left (AL)



Double Arrow (DA)



Arrow Right & Left (ARL)
Represents each side of a double face panel.

*Wording and chevron's not to scale. Illustration purposes only.

Electrical

Power requirements: 120 to 277VAC, 50/60Hz. AC-only signs use 3 watts max, Self-powered signs use 3.5 watts max while recharging batteries. **Transfer:** solid state relay automatically and instantly transfers lamp load upon failure of AC supply.

Brownout: close tolerance electronic circuit activates emergency unit when utility power dips below nominal voltage.

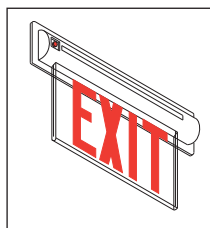
Charger: current limited and short circuit proof. Charger regulation $\pm 1\%$. The equipment is capable of full recharge in compliance with Underwriters 924 specifications.

Controls: Combination push button test switch and LED AC indicator light.

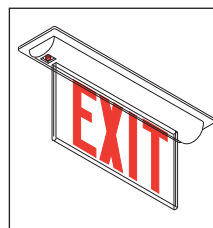
Diagnostic/Self-test feature (optional):

Diagnostic / Self Test circuitry is standard on all self-powered models. This circuitry is programmed to ensure the exits readiness and reliability by continuously monitoring every critical function of the unit. If a problem occurs, a single FAULT indicator illuminates immediately. A detailed diagnostic display is located on the inside of the exit sign, out of sight from the general public. The detailed diagnostic display inside the exit sign will further indicate the nature of the fault. The self test will test the unit for 30 seconds every 30 days, 30 minutes every 60 days and 90 minutes annually.

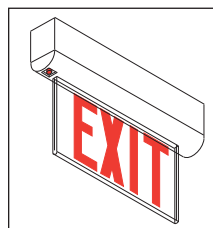
Available Models Circular trim plate models shown. Optional Angular trim plate available.



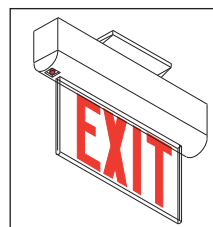
Recessed Wall Mount



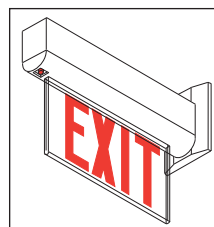
Recessed Ceiling Mount



Surface Wall Mount



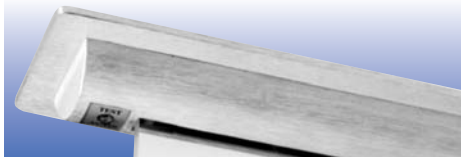
Surface Ceiling Mount



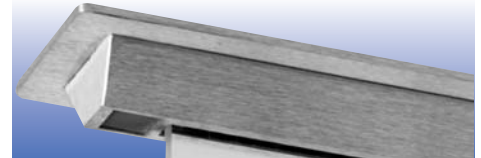
Surface End Mount

Choice of Trim Plate

Standard
Circular Trim Plate

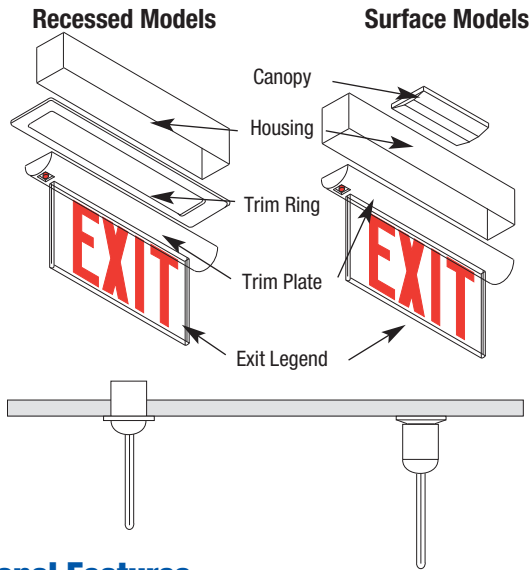


Optional
Angular Trim Plate



Mounting Configurations

All mounting configurations use the same basic components. Inserting a trim ring allows for recessed mounting on walls or ceilings. Applying a canopy allows for surface mounting on ceilings or walls as back or end mount.



Optional Features

Description

Fire alarm activated flasher-FA
 Two circuit (AC models only)-2CKT
 8" EXIT legend for NYC code-8
 Self testing/self diagnostic (self-powered models only)-D
 AC/DC Remote-DC

Add Suffix

Accessories (order as a separate item)

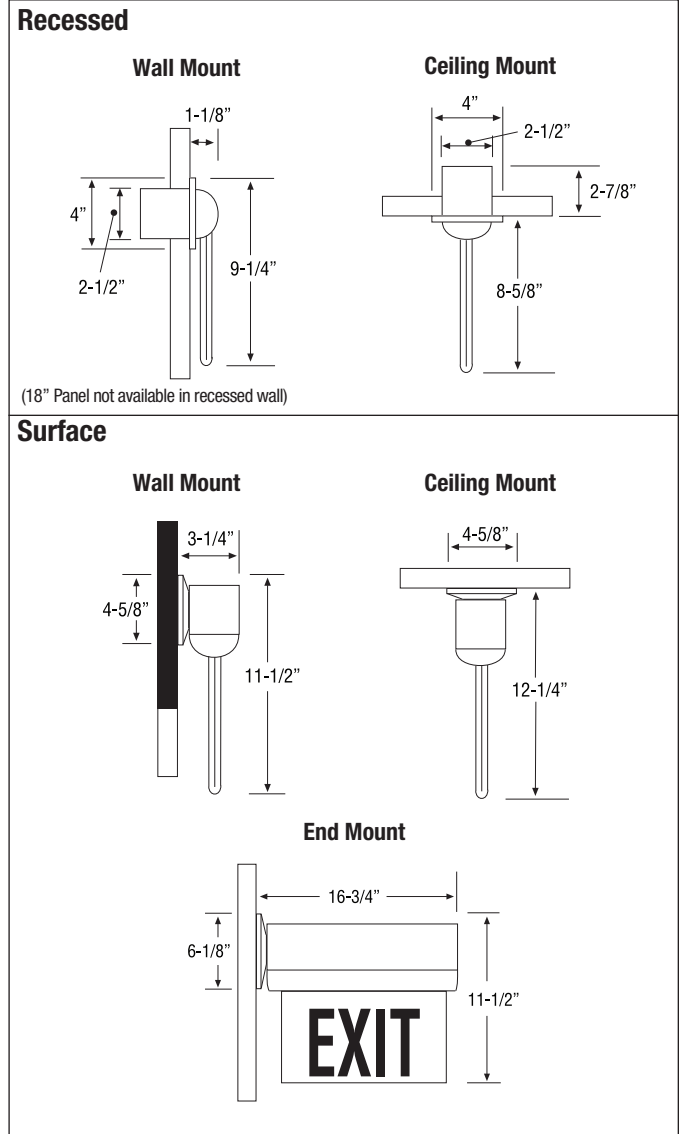
White pendantP*-WT
 Black pendantP*-BK
 * Custom pendant lengths and colors available, specify (12", 24", 36", etc)

Power Consumption

Model	AC Specs		DC Specs	
AC-only	120 to 277 Vac	2 W	-	-
AC/DC	120 to 277 Vac	2 W	6 to 24Vdc	Less than 1.5 W
Self-powered	120 to 277 Vac	2.5 W	NiCad battery	Min. 90 minutes

Outline and Dimensions

Dimensions are approximate and subject to change.



How To Order

All models are 120 through 347 universal voltage. Bar hangers are included with all edge-lit exit signs.

W	LXN	1	RC	AR	-C	-U	-D
<i>Housing, Trim Ring, Trim Plate and Canopy Color</i>	<i>Model</i>	<i>Number of faces</i>	<i>Letter/background colors</i>	<i>Arrow designation</i>	<i>Trim Plate</i>	<i>-U = Universal model (Includes trim ring, canopy and bar hangers)</i>	<i>Options See Optional features</i>
Blank = Brushed aluminum W = White B = Black PB = Polished brass CH = Polished chrome BR = #313 dark bronze	LX = AC-only LXN = Self-powered	1 = Single face 2 = Double face	*RC = Red on clear RW = Red on white RM = Red on mirror *GC = Green on clear GW = Green on white GM = Green on mirror <i>*Available as single face only</i>	Blank = No arrow AR = Arrow right AL = Arrow left DA = Double arrow ARL = Arrow right and left, used on double face signs with one arrow on each side	C = Circular (standard) A = Angular (optional)		



LED Die Cast Aluminum Surface or Recessed Mount AC, or Self-Powered Master

Evaluated to UL 924 Standard for floor proximity applications.

- AC-dual circuit models
- DC-remote models supplied by “Master” exit signs (Prestige DX Series)
- Master Exit sign with self-powered, self-diagnostic features.

Sealed Maintenance-Free Batteries

- Nickel-Cadmium

Light Source

- LED, Light Emitting Diodes, red LED’s of ALINGAP technology

The **Prestige LED Floor Proximity Series** unique design promises bold visual performance that will enhance safety. This versatile series is available for surface or recessed mounting at the floor level and is available as: AC-only, AC-dual circuit, and as a DC-remote fixture supplied by a “Master” Exit sign of the “Prestige DX Series”

Standard Features

Reliability

The **Prestige LED Floor Proximity Series** has a 5-year full warranty. Each unit is fully tested.

Unit Data

- Stand alone AC-Only and Self-Powered Units: 120/277 Vac dual voltage
- Low energy consumption LED light source (see Power Consumption chart)
- LED’s provide excellent visual performance, high reliability and low maintenance costs. Red LED’s are of ALINGAP technology.
- **Self-Powered Master Units:**
The self-contained batteries and circuitry are inside the housing. The master exit sign comes standard with the Self-Test/Diagnostic Feature. Its circuitry also monitors and supplies Diagnostics to the Remote Floor Proximity EXIT sign. Batteries are sealed, maintenance-free Nickel-Cadmium for superior performance and long life. Provides 90 minutes of emergency operation and remote power for proximity exit sign.
- **Remote Floor Proximity Exits:** Power and diagnostics supplied from the DX/DXN Series Master Units only.

Standard Self-Test/Diagnostic Feature

The self-test/diagnostic feature continuously monitors the charger assembly, battery and LED assembly current. If a fault is indicated, the external service required indicator will illuminate. The internal fault indicators will then indicate the nature of the fault. The self-test/diagnostic will self test for 30 seconds every 30 days, 30 minutes every 60 days and 90 minutes annually. Meets NFPA 101 Life Safety Code requirements for periodic testing.

Optional Features

Description

Vandal Resistant-VR1

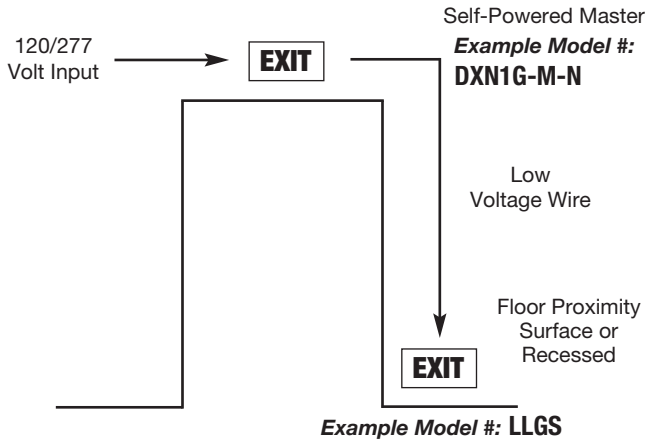
Add Suffix

Power Consumption

	Model	AC Specs		DC Specs	
RED	AC-only	120/277 Vac	1.2 W	-	-
	AC-2 Circuit	120/277 and 277/277 Vac	2.6 W	-	-
	Self-powered	120/277 Vac	3.8 W	NiCad battery	Min. 90 minutes
GREEN	AC-only	120/277 Vac	0.9 W	-	-
	AC-2 Circuit	120/277 and 277/277 Vac	3.3 W	-	-
	Self-powered	120/277 Vac	5 W	NiCad battery	Min. 90 minutes

How To Order Typical Applications

Self-Powered Master with Floor Proximity Unit



How To Order

Self-Powered Master (Unit for above door)

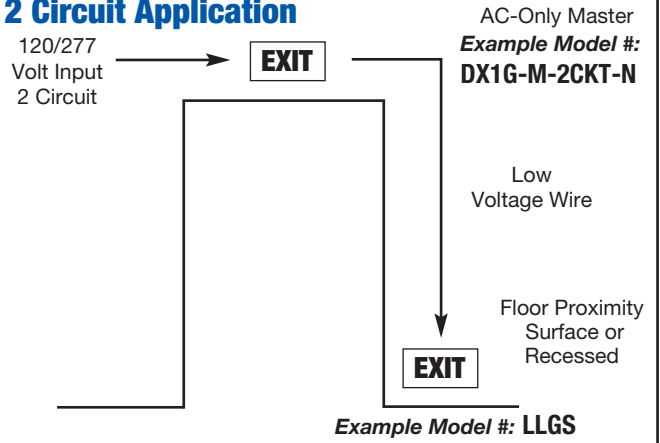
Color Option Prefix	Series	Faces	Stencil Face Lamp Color	Master Unit	Standard Series Designator
Blank = Brushed Alum. face, Black Body WW =All White BB =All Black	DXN 1	1 =Single Face 2 =Double Face	R =Red G = Green Open face* RW = Red/White GW = Green/White	M	N

Floor Proximity Unit (Unit on side of door)

Color Option Prefix	Series	Stencil Face Lamp Color	Mounting	Option
Blank = Brushed Alum. face, Black Body W =All White B =All Black	LL	G	R =Recessed S =Surface	-VR1

*Open face required for special wording (contact factory).

AC-Only Master with Floor Proximity Unit 2 Circuit Application



How To Order

AC-Only Master (Unit for above door)

Color Option Prefix	Series	Faces	Stencil Face Lamp Color	Master Unit	Circuit	Standard Series Designation
Blank = Brushed Alum. face, Black Body WW =All White BB =All Black	DX 1	1 =Single Face 2 =Double Face	R =Red G =Green Open face* RW = Red/White GW = Green/White	M	2CKT=2 circuit	N

Floor Proximity Unit (Unit on side of door)

Color Option Prefix	Series	Stencil Face Lamp Color	Mounting
Blank = Brushed Alum. face, Black Body W =All White B =All Black	LL	G	R =Recessed S =Surface

*Open face required for special wording (contact factory).

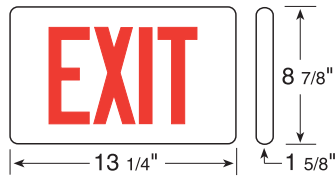
Outline and Dimensions

Approximate and subject to change.

Self-Powered/AC-Only Master

DXN1G-M-N

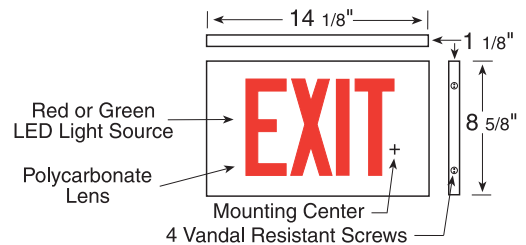
DX1G-M-N



Floor Proximity Slave Surface Mount

LLGS

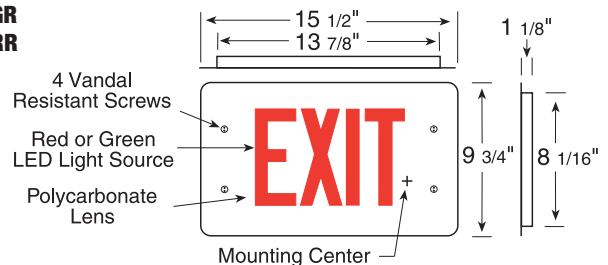
LLRS



Floor Proximity Slave Recessed Mount

LLGR

LLRR



For Self-Powered Low Proximity Surface Mount, see Prestige Series on page 60, with VR1 option.

For Self-Powered Low Proximity Recessed Mount, see Preceptor Series on page 62, with VR1 option.

Prestige DX Series

Die Cast Exit Series



Prestige Series unique design promises bold visual performance that will enhance safety while providing an elegant design to complement a variety of interiors. The Prestige brings together today's best technology to provide a long lasting, high performance exit sign... from its durable powder coated die cast construction... to its long life LED light source... to standard self diagnostic circuitry, the Prestige has more to offer in an exit sign.

Evaluated to UL 924 Standard

AC-Only Signs are Listed for use in Damp Locations.

Light Source

- LED, Light Emitting Diodes, red LED's of ALINGAP technology

Sealed Maintenance-Free Nickel-Cadmium Batteries

Standard Features

Reliability

The **Prestige Die Cast LED Series** has a 5-year full warranty. Prestige LED Series signs are unaffected by the vibrations, ambient temperature swings and typical power surges detrimental to standard exit light sources. Models can be wall, end or ceiling mounted.

Unit Data

Constructed of Die Cast aluminum. Finished with a deep brushed face and black body. Optional finishes available.

- LED, Light Emitting Diodes (Red LED ALINGAP)
- Smaller Design, Self-Powered Exit Sign standard with Diagnostic/Self Test Circuitry

Optional Features

Description

Add Suffix

2 Circuit (120/120 or 277/277)(AC Only)	-2CKT
Fire Alarm Activated Flasher.....	-FA
Flasher/Buzzer (Self-Powered Only)	-FZ
Vandal Resistant Screws.....	-VR
Vandal Resistant Shield and Screws.....	-VR1
Damp Location	-DL
8" Letters for NYC.....	-8
Special Wording (contact factory)	

Accessories (order as a separate item)

White Pendant	PD*W
Black Pendant	PD*B

*Specify pendant length (12", 24", 36", etc)

Power Consumption

Model (6")	AC Specs		DC Specs	
AC-only	120 to 277 Vac	1.25 W	-	-
AC/DC	120 to 277 Vac	1.25 W	6 to 24 VDC	Less than 1.5 W
Self-powered	120 to 277 Vac	1.6 W	NiCad battery	Min. 90 minutes

Model (8")	AC Specs		DC Specs	
AC-only	120 to 277 Vac	2.5 W	-	-
AC/DC	120 to 277 Vac	2.5 W	6 to 24 VDC	1.6 W
Self-powered	120 to 277 Vac	2.9 W	NiCad battery	Min. 90 minutes

How To Order (example)

-	DXN	1	R	-FA	-N
<i>Color Option Prefix</i>	<i>Series</i>	<i>Faces</i>	<i>Legend Color</i>	<i>Option</i>	<i>New Design</i>
Blank =Standard black body, brushed aluminum face	DX = AC-only	1 =Single	R =Red or G =Green	See Optional Features	
WW =White body, white face	DXN = Self-powered Nickel-Cadmium battery	2 =Double	Open face*		
WA =White body, brushed aluminum face			RW =Red/White or GW =Green/White		
BZ =Painted bronze, BB =Black body, black face			<i>*Required for special wording</i>		
AA =All brushed aluminum or PB =Polished brass					
CH =Polished chrome					
Contact factory for custom colors					

High Performance Circuitry

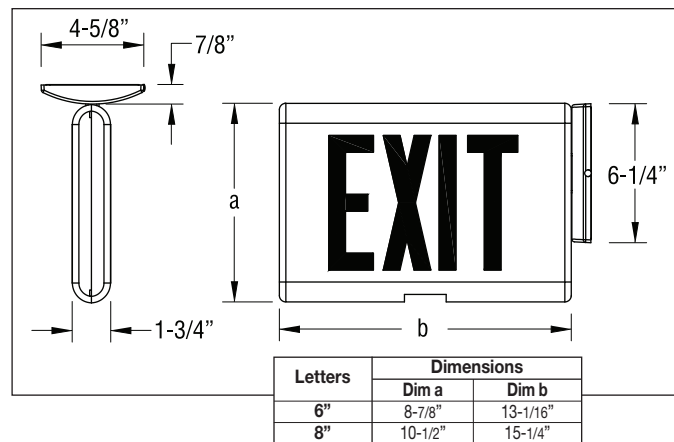
- Self Contained... Batteries & circuitry located inside the exit housing.
- Continuous self-diagnostic monitoring. Self-testing per Life Safety Code requirements.
- Fully automatic charger is solid state.
- All models are Universal 2-wire, 120-277Vac, 50/60Hz.
- Sealed, maintenance-free Nickel-Cadmium provide 90 minutes of emergency operation.
- Batteries recharge per UL924 requirements.

Diagnostic / Self Test Feature (standard)

Diagnostic / Self Test circuitry is standard on all self-powered models. This circuitry is programmed to ensure the exits readiness and reliability by continuously monitoring every critical function of the unit. If a problem occurs, a single service required indicator illuminates immediately. A detailed diagnostic display is located on the inside of the exit sign, out of sight from the general public. The detailed diagnostic display inside the exit sign will further indicate the nature of the fault. The self test will test the unit for 30 seconds every 30 days, 30 minutes every 60 days and 90 minutes annually.

Outline and Dimensions

Dimensions are approximate and subject to change.





Prestige Economizer Series



Typical Specification

Supply and install the **Prestige Economizer Emergi-lite Series** slim-profile edge-lit exit sign. The unit shall operate with universal two-wire AC input voltage from 120Vac to 277Vac at less than 3 Watts for single and double face legends. The housing assembly shall be fabricated of extruded aluminum with a textured finish and _____ color. The canopy shall be of die-cast aluminum and allow for ceiling, wall, or end mount installation. The light source shall be long-life LEDs installed on a PCB strip. The acrylic panel shall have a curved contour. The legend shall have six-inch high with 3/4-inch stroke red letters on a clear background, unless otherwise specified. The unit shall be equipped with field installed stick-on translucent directional indicators, to be installed in the field as required by the code.

The exit sign in a self-powered configuration shall be equipped with sealed Nickel-Cadmium batteries and perform minimum 90 minutes of emergency illumination upon AC failure.

The equipment shall be UL-924 listed.

The equipment shall be **Emergi-Lite** Model _____.

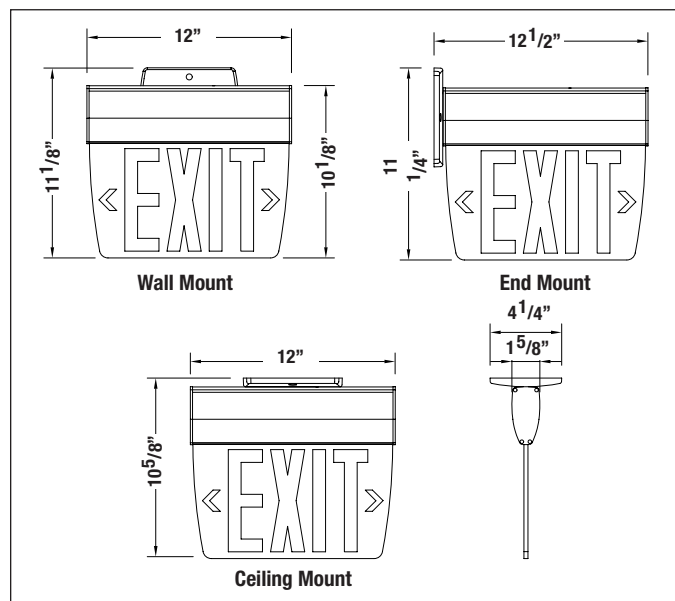
Unit Warranty*

3 years full warranty.

*Subject to proper installation and maintenance.

Outline and Dimensions

Dimensions are approximate and subject to change



Slim Profile Surface Mount LED Edge-Lit Exit Sign For Recessed Mount, please consult the factory Available in Extruded Aluminum or Off-White Finishes

The **Emergi-lite Prestige Economizer Series** combines a slim, modular design with state of the art technology and ease of installation including field installed directional arrows. Elegant and Economical, these exit signs complement any interior design while providing mounting versatility and energy efficiency. With the look of the Exit sign and the Simplified installation this product will be the favorite at both the Specification and Contractor level.

Standard Features

- Slim-profile extruded aluminum housing
- Slim-profile die-cast aluminum canopy
- Choice of finishes: textured aluminum or off-white
- Universal surface mounting: wall, ceiling or end mount
- Click-to-open housing door allows easy access to the panel and electrical wiring
- Acrylic panel with curved contour provides superior clarity and illumination
- Legend with a choice of red or green six-inch letters, and easy to add field installed stick-on translucent directional arrows
- Choice of legend background: clear, white or mirror
- Simple, two-wire universal AC input (120V to 277Vac 60Hz) prevents installation errors
- Simple, two-wire universal DC input: 6V to 24Vdc
- Long-life LED light assures low maintenance costs and superior illumination
- Energy efficient power consumption: less than 3 Watts for selfpowered version and less than 2 Watts for AC only single or double face
- Sealed Nickel-Cadmium batteries provide 90 minutes of emergency lighting
- UL-924 listed

Power Consumption

Model	AC Specs		DC Specs	
AC-only	120 to 277Vac	Less than 2 W	-	-
AC/DC	120 to 277Vac	Less than 2 W	6 to 24Vdc	Less than 1.5 W
Self-powered	120 to 277Vac	Less than 3 W	-	-

How To Order (Surface Mount Series)

TA	PE	1	RC
Housing Color	Series	Face	Legend Color
TA = Textured Aluminum	PE = AC	1 = Single Face	RC* = Red on Clear
OW = Off White	PES = AC/DC	2 = Double Face	RW = Red on White
	PEN = Self-Powered		RM = Red on Mirror
			GC* = Green on Clear
			GM = Green on Mirror
			* Single face Only

NOTE: For recessed mount please contact factory

(GW = Green on White) Not available

Preceptor Series Die Cast LED Exit Series



Save energy while providing excellent visual performance with the **Preceptor LED Series** exit signs. Distinctively styled in die cast aluminum, Preceptor LED signs offer blemish-free workmanship, versatile mounting capability and economical long lasting LED performance.

UL Listed

Light Sources

- LED, Light Emitting Diodes, red LED's of ALINGAP technology

Sealed Maintenance-Free Batteries

- Nickel-Cadmium

Standard Features

Reliability

The **Preceptor Die Cast LED Series** has a 5-year full warranty. Preceptor LED Series signs are unaffected by the vibrations, ambient temperature swings and typical power surges detrimental to standard exit light sources.

Unit Data

The unit comes standard with two 6 Volt, 5.4 Watt high intensity wedge base incandescent lamps. Other lamps options are available, please refer to Lamp Chart.

Visual Performance... 100% illumination in normal and emergency operation.

No Maintenance Costs... Long Life LED's eliminate twice-a-year relamping typical of incandescent lamps.

Optional Features

Description

Fully RecessedFR
Flasher/Buzzer (Self-Powered Only)FZ

Add Prefix

Add Suffix

Fire Alarm Activated Flasher (AC Only Models)-FAC
Fire Alarm Activated Flasher (Self-Powered Models)-FA
Vandal Resistant screws-VR
Vandal resistant shield and screws-VR1
Dual Circuit Operation (AC Only Model)-2CKT
Damp Location-DL
Special Wording.....contact factory

Accessories (order as a separate item)

White PendantP*-WT
Black PendantP*-BK

* Specify pendant length (12", 24", 36", etc.)
Custom colors available, consult factory.

Power Consumption

Model	AC Specs		DC Specs	
	Vac	W	VDC	Minutes
AC-only	120 to 277 Vac	1.4 W	-	-
AC/DC	120 to 277 Vac	1.4 W	6 to 24 VDC	Less than 1.5 W
Self-powered	120 to 277 Vac	1.7 W	NiCad battery	Min. 90 minutes

How To Order (example)

	LED	XN	1	R	-VR1	-N
<i>Housing Color Option Prefix</i>	<i>Series</i>	<i>Sealed Battery</i>	<i>Number of Faces</i>	<i>Face</i>	<i>Option</i>	<i>Standard</i>
Blank =Standard black body, brushed aluminum face	LEDP = LED	Self-Powered Models	1 =Single face	Stencil Face	See	Series
WW =White body, white face,		Blank =AC-only	2 =Double face	R =Red or G =Green	Optional	Designator
WA =White body, brushed aluminum face		XN =Nickel-Cadmium		Open face*	Features	
BZ =#313 dark bronze, BB =Black body, black face				RW =Red on white		
AA =All brushed aluminum, CH =Polished chrome,				GW =Green on white		
PB =Polished brass						

*Required for special wording

Choice of Models

AC-Only Models: 120 through 277Vac, 50/60Hz universal input. Includes a slimline canopy for top and end mounting.

AC/DC Models: 120 through 277Vac, 50/60Hz universal input with a 6 to 24Vdc wire harness. Includes a slimline canopy for top and end mounting.

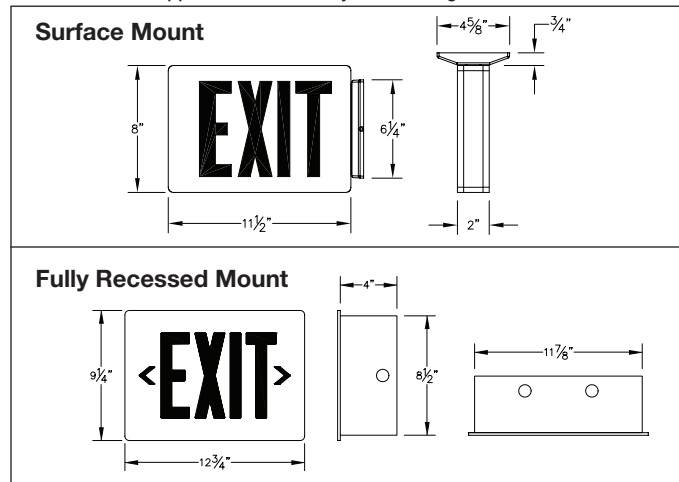
Self-Powered Models are Self Contained, batteries and circuitry are located inside the exit housing: 120 through 277Vac, 50/60Hz universal input. Sealed maintenance free Nickel-Cadmium battery provides 90 minutes of emergency illumination. Includes a slimline canopy for top and end mounting.

Diagnostic / Self Test Feature (standard)

Diagnostic / Self Test circuitry is standard on all self-powered models. This circuitry is programmed to ensure the exits readiness and reliability by continuously monitoring every critical function of the unit. If a problem occurs, a single service required indicator illuminates immediately. A detailed diagnostic display is located on the inside of the exit sign, out of sight from the general public. The detailed diagnostic display inside the exit sign will further indicate the nature of the fault. The self test will test the unit for 30 seconds every 30 days, 30 minutes every 60 days and 90 minutes annually.

Outline and Dimensions

Dimensions are approximate and subject to change.





Remote Capacity Die Cast Exit Sign Preceptor Series

The **Remote Capacity Preceptor Series** combines visual performance, enduring construction, and elegant design while satisfying code requirements at the same time. Power your required outdoor emergency lighting remote head from the Preceptor Series exit immediately inside the egress discharge location.

UL Listed

Complies with NEC, Life Safety Code and OSHA.

Light Sources

- LED, Light Emitting Diodes, red LED's of ALINGAP technology

Sealed Maintenance-Free Batteries

- Nickel-Calcium
- Nickel Metal Hydride (Cadmium-free, environmentally friendly)

Standard Features

Reliability

The **Preceptor Series** comes complete with a 5-year full warranty.

Unit Data

Constructed of die cast aluminum, each Preceptor Series remote capable Exit sign comes standard with a power canopy that houses the battery, input transformer and printed circuit board. The standard unit color is a black frame with a brushed aluminum face. Optional colors are available to suit any décor. Specify single or double face as required.

Mounting

The remote capability Preceptor Series may be ceiling, end or back mounted to the power canopy. The power canopy surface mounts directly to the junction box (supplied by others).

Light Source

Long-life, high-performance, low- power consumption, Red LEDs of ALINGAP technology, provide an even illumination in the normal and emergency modes.

Application Flexibility

Lead-Calcium Models (RCL) - Sealed, maintenance-free Lead-Calcium batteries power the exit sign for an estimated period of 20+ hours minimum with no remote load or 90-minutes run time with 9 watts remote load.

Nickel Metal Hydride Models (RCN) - Sealed, maintenance-free Nickel metal hydride batteries power the exit sign for an estimated period of 20+ hours minimum with no remote load or 90-minutes run time with 12 watts remote load.

Nickel Metal Hydride Models (RCX) - Sealed, maintenance-free Nickel metal hydride batteries power the exit sign for an estimated period of 40+ hours minimum with no remote load or 90-minutes run time with 24 watts remote load.

Unit Rating Chart Unit equipment with remote capability- total power available for emergency lights

Sealed Maintenance-Free Battery Types	*Watts to 87 1/2% of rated battery voltage			
	1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.
Lead-Calcium	9	-	-	-
Nickel-Metal Hydride	12	9	-	-
	24	18	12	9

* National Electrical Code Specification

How To Order (example)

Housing Color	LEDP Series	RCN Battery Type	1 Number of faces	R Legend Color	-AD Option Suffix
Blank=	LEDP= Preceptor LED series	RCL= Sealed Lead-Calcium, 9 watts remote capacity	1= Single Face	R= Red or G= Green	See Optional Features
Black body, brushed aluminum face		RCN= Sealed nickel metal hydride, 12 watts remote capacity	2= Double Face	Open face*	
		RCX= Sealed nickel metal hydride, 24 watts remote capacity		RW= Red/White	
				GW= Green/White	
				*Required for special wording	



Electrical

RCL - 120/277Vac, 60Hz, 0.02A max

RCN - 120/277Vac, 60Hz, 0.03A max

RCX - 120/277Vac, 60Hz, 0.03A max

Optional Features

Color Options

Add Prefix

Black Body with Black face	BB
White Body with White face.....	WW
White Body with Brushed Aluminum face	WA
All Brushed Aluminum	AA
Polished Brass	PB
Polished Chrome	PC
Dark Bronze #313	BZ

Description

Add Suffix

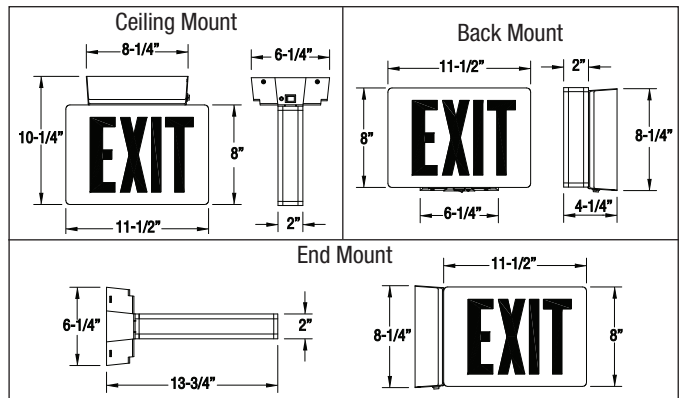
Advanced Diagnostic.....	-AD
Advanced Diagnostic, non-audible	-ADNA
Time delay (specify 5, 10 or 15 minutes).....	-D1, D2, D3**
Flasher / buzzer (emergency mode operation).....	-FZ*
Fire alarm activated flasher	-FA*
Damp Location	-DL
Vandal resistant screws	-VR
Vandal resistant shield and screws.....	-VR1

* Not available with AD/ADNA options.

** Not required with AD/ADNA options.

Outline and Dimensions

Dimensions are approximate and subject to change.





The Escort is a versatile exit sign, featuring an all-in-one design that uses the same compact housing for both AC, AC/DC and Self-Powered models. The signs are molded in tough high impact thermoplastic with a scratch resistant suede finish. Its off white or optional black color blends well with a variety of interiors and matches other Escort family emergency units and remote heads.

Evaluated to UL 924 Standard

Light Sources

- LED, Light Emitting Diodes, red LED's of ALINGAP technology

Sealed Maintenance-Free Batteries

- Nickel-Cadmium

Standard Features

Reliability

The EC Escort Thermoplastic LED Exit Series has a 5-year full warranty.

Unit Data

Exit frame, backplate, faceplate and mounting canopy is constructed of rugged high impact off white thermoplastic.

LED Light Source

- Models consume less than 2.2 watts
- Even illumination, without hot spots.
- All self powered units come complete with test switch and AC on indicator.
- Available with damp location listing.

High Performance Current Regulated Circuitry

- Uniform LED light output
- Battery is sealed, maintenance-free Nickel-Cadmium for superior performance and long life.
- No canopy is required for back mounted signs.
- Test switch and pilot light is located on side of sign.
- Provide 90 minutes of emergency operation as per UL 924.
- Universal voltage, 2-wire input: 120-277Vac 50/60 Hz.

Power Consumption

Model	AC Specs		DC Specs	
	Voltage	Power	Voltage	Power
AC-only	120 to 277 Vac	1.6 W	-	-
AC/DC	120 to 277 Vac	1.6 W	6 to 24 VDC	Less than 1.5 W
Self-powered	120 to 277 Vac	2.2 W	NiCad battery	Min. 90 minutes

Diagnostic / Self Test (Optional)

Self-Powered units with the diagnostic / self test option have a test switch, external AC on and "Service Required" indicators. The diagnostic / self test option features continuous monitoring of the charger assembly, battery and LED assembly current. If a fault is indicated the external service required indicator will illuminate. The internal fault indicators will then indicate the nature of the fault. The diagnostic / self test option will also self test 30 seconds every 30 days, 30 minutes every 60 days and 90 minutes annually.

Optional Features

Optional Feature	Add
Suffix AC/DC Remote (6-24Vdc)	-DC
Fire alarm activated flasher (AC-only sign)	-FAF
Dual AC circuit (120/120 or 277/277)	-2CKT*
Damp location	-DL
Diagnostic / self test (self-powered)	-D
Fire alarm activated flasher (self-powered)	-FA
Flasher / buzzer (self-powered)	-FZ
Vandal resistant screws	-VR
Vandal resistant shield and screws	-VR1

*AC-only units

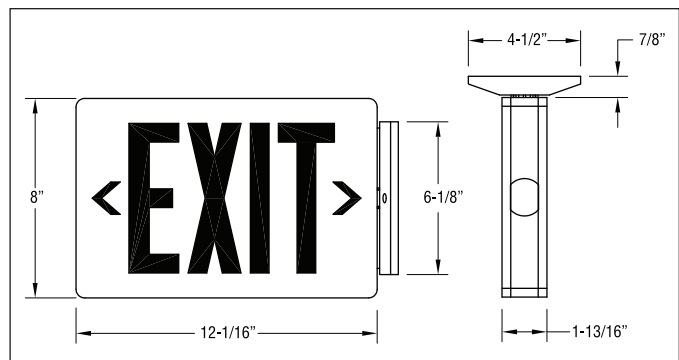
Accessories (order as a separate item)

White pendant	P*-WT
Black pendant	P*-BK
Wire Guard (wall mount)	WG1-E
Wire Guard (ceiling or end mount)	WG5-E

*Specify pendant length (12", 24", 36", etc)

Outline and Dimensions

Dimensions are approximate and subject to change.



How To Order (example)

Housing	ECLXN Series	4 Face	R Stencil Face	-VR1 Option
Blank=white B=black	ECL= AC-Only ECLXN= Self-powered Nickel-Cadmium battery	4=Universal 2 faces, backplate and canopy	R=red G=green Open face* RW=red on white GW=green on white	See Option chart

*Open face required only with special wording.



THE ESCORT SERIES
 • ON THE SPEC
 • ON THE JOB
 • ON THE SHELF

Thermoplastic Unit Mini Systems

The Combination Exit, emergency lighting unit is molded in tough high impact thermoplastic with a scratch resistant suede finish. It's off white or optional black color blends well with a variety of interiors and matches other Escort family emergency units and remote heads.

Listed to UL 924 Standard

Light Sources

- Heads, two 5.4 watt high intensity incandescent lamps
- Exit Sign LED, Light Emitting Diodes; red LED's of ALINGAP technology

Sealed Maintenance-Free Batteries

- Lead-Calcium (all models)
- Nickel-Cadmium (AD and ADNA units only)

Standard Features

Reliability

The Escort Mini System Series has a 3-year full warranty (excluding lamps, pilot lights and fuses).

Unit Data

The Escort Mini Systems is factory assembled and combines the battery capacity of an ECX-2 with a matching Escort LED exit sign and a fused output to power up to 12 watts remote.

Mounting: This unit can only be used for single face, back mounting applications.

Light Source

The unit comes standard with two 6 Volt, 5.4 Watt high intensity, wedge base incandescent lamps. Other lamp options are available, please refer to "How to Order" chart below.

Charger

Pulse plus battery charger includes semi conductor control circuit performing all necessary functions: battery charge per UL924. Brown-out emergency transfer low-voltage disconnect, battery lock-out.

Power requirements

120/277Vac, 60Hz 0.1/0.05A

Self-Diagnostic Models

Advanced Diagnostics (audible and non-audible versions)

Our Advanced Diagnostic circuitry was designed to continuously monitor every critical function of the unit, attached remote lighting heads and exit signs. Operational status is indicated by colored LED lamps. A high-pitch audible alarm if selected and an LED status indicator, alert maintenance personnel of a unit malfunction. The self-testing program will periodically test the unit in accordance with NFPA 101, Life Safety Code. Unit tests itself every thirty days for one minute, thirty minutes on the sixth month and ninety minutes annually.

Unit Rating Chart

Unit equipment with remote capability - total power available for emergency lights

Sealed Maintenance-Free Battery Types	*Watts to 87 1/2% of rated battery voltage			
	1 1/2 hrs.	2 hrs.	3 hrs.	4 hrs.
Lead-Calcium	24	15	-	-
Nickel-Cadmium**	24	18	12	-

*National Electrical Code Specification

**Only available with Advanced Diagnostic

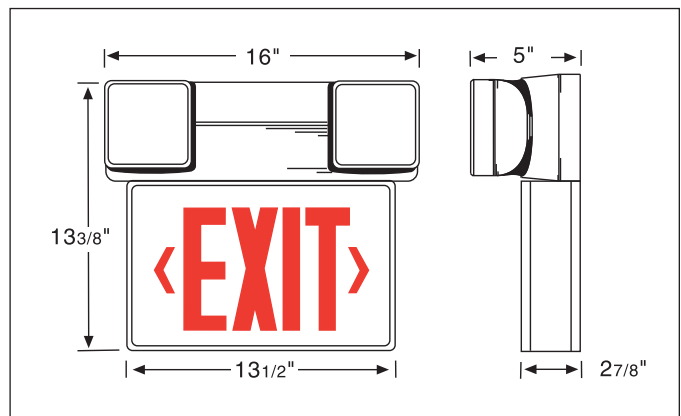
How To Order (example)

ECX	-2	-L	1R	-AD
Model	Mini Systems	AC lamp	Legend color	Options
	#of heads	L = LED	1R=Single face, red stencil face	See Optional
	2=2 heads		1G=Single face, green stencil face	Features



Outline and Dimensions

Dimensions are approximate and subject to change.



Optional Features

Description	Add Prefix
Black housing and heads.....	B
	Add Suffix
Advanced diagnostics.....	-AD
Advanced diagnostics, non-audible.....	-ADNA
Nickel-Cadmium battery (AD & ADNA units only).....	-N
Time delay (specify 5, 10 or 15 minutes).....	-D1, D2 or D3**
Damp Location	-DL
Non-standard input voltage.....	Specify
Flasher	-FL
Flasher/buzzer	-FZ
Fire alarm activated flasher.....	-FA
Vandal resistant screws.....	-VR

* Not required with AD/ADNA option.

Accessories (order as a separate item)

White pendant	P*- WT
Black pendant.....	P*- BK
Wire Guard (heads in any position)	WG2-E

* Specify pendant length (12", 24", 36", etc)



The **X30 Escort Series** is constructed of thermoplastic. It will not dent, peel, rust, or corrode and its textured finish resists scratching. The X34 model is universal to accommodate wall or ceiling mounting, single or double face. Stencil and Open Faces have field programmable arrows.

Evaluated to UL 924 Standard

Light Sources

- LED, Light Emitting Diodes, red LED's of ALINGAP technology
- Emergency Heads, two 6V, 5.4 watt high intensity incandescent lamps

Sealed Maintenance-Free Batteries

- Lead-Calcium
- Nickel-Cadmium



Standard Features

Reliability

The **X30 Series** comes complete with a 3-year full warranty (excluding lamps).

Unit Data

X30 Series is constructed of rugged thermoplastic in a choice of off-white or black. Exit sign provides even illumination for excellent legibility. Power packs for emergency models provide 90 minutes of emergency operation.

Light Source

The unit comes standard with two 6 Volt, 5.4 Watt high intensity wedge base incandescent lamps. Other lamps options are available, please refer to Lamp Chart.

Charger

Circuitry offers 120/277 volt input, fully automatic charger, combination AC pilot light/test switch, temperature compensated charger, low voltage battery disconnect, and brownout protection.

Optional Features

Description

Non-standard input voltage Specify
 Vandal resistant screws -VR

Add Suffix

Accessories (order as a separate item)

White Pendant P*-WT
 Black Pendant P*-BK
 Wire Guard, Wall Mount WG6-E

*Specify pendant length (12", 24" 36", etc)

Power Consumption: 120/277 Vac 60Hz, 0.3/0.15 Amp
Unit Rating Chart (total DC power available for local and remote emergency lights)

Battery Type	DC Voltage	Model Number	Watts to 87 1/2% of rated battery voltage			
			1 1/2 Hrs.	2 Hrs.	3 Hrs.	4 Hrs.
Lead-Calcium	6	SBX34	30	20	15	10
Nickel-Cadmium	6	STX34	24	18	12	9

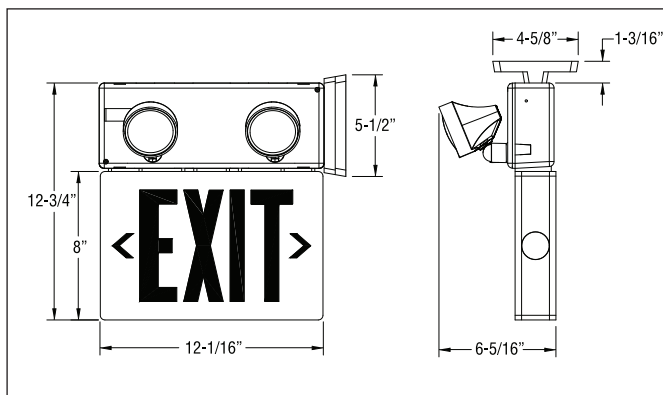
SBX = 30 watts total (with two heads = 19 watts)

STX = 24 watts total (with two heads = 15 watts)

PPDMP = SBX with metal packs

Outline and Dimensions

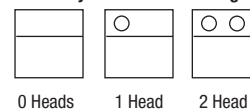
Dimensions are approximate and subject to change.



How To Order (example)

L	W	SBX	34	R	29	-VR
AC Lamp	Housing	SBX=Sealed	Series	Face	Mini Systems #of	Options
L=LED	Color	Lead-Calcium, 30 watts total (with 2 heads = 19 whatts)	34=Universal; Double face, with canopy and backplate	Stencil Face	heads	See Optional Features
	W=White B=Black	STX=Nickel-Cadmium, 24 watts total (with 2 heads = 15 whatts)		R=Red G=Green Open Face Exit* RW=Red/White WR=White/Red** GW=Green/White** WG=White/Green	19=1 head 29=2 heads Blank=0 heads	

Mini System Head Mounting:



* Open face sign required for special wording
 ** INC Only

Note: PPDMP = Available with SBX Pulse plus diagnostic with metal pack



Steel Incandescent Exit X10 Series

The **X10 Series** is available in a variety of models with options and accessories to meet virtually any exit sign application. The removable side panel provides job site flexibility in changing signs for either single or double face requirements. A totally universal model, X10, takes all the guess work out of mounting specification. It contains two faces, a backplate and a canopy to accommodate mounting on wall or ceilings, single or double face.

Listed to UL 924 Standard

AC-Only signs are U.L. Listed for use in **DAMP LOCATIONS**.

Sealed Maintenance-Free Batteries

- Nickel-Cadmium • Long Life Lead • Lead-Calcium



Standard Features

Reliability

Entire unit (excluding lamps and fuses) carries a 3-year Full Warranty.

Unit Data

Housing: The Housing is constructed of 20 gauge steel, with a tough epoxy powder finish in black or off-white. Stencil and open face have field programmable knock-out directional arrows.

Light Source: Incandescent, using two 12 watt 120 VAC long life lamps. Lamp replacement part #570.0013

Optional Features

Description

Non-standard input voltage	Specify
Dual Circuit (AC Only)	-2CKT
Flasher (Self-Powered Exit Only)	-FL
Flasher Buzzer Combination, (Self-Powered Exit Only)	-FZ
Fire Alarm Activated Flasher, (Self-Powered Exit Only)	-FA
Vandal Resistant Screws	-VR
Brushed Aluminum Face	-L

Add Suffix

Accessories (order as a separate item)

White Pendant	P*-WT
Black Pendant	P*-BK
Wire Guard Ceiling Mount (Exit Only)	WG5-E
Wire Guard End Mount (Exit Only)	WG5-E
Wire Guard For Wall Mount (AC Only, AC/DC and Self-Powered Exit Signs)	WG12-E
Wire Guard For Wall Mount (Mini System or Combo)	WG6-E

*Specify pendant length (12", 24", 36", etc)

Power Consumption (incandescent Exit Signs)

Model	AC Specs		DC Specs	
AC-only: X14	120Vac or 277 Vac	Less than 24W	-	-
AC/DC: 6...X14 12...X14 24...X14	120Vac or 277 Vac	Less than 24W	6Vdc 12Vdc 24Vdc	9 W
Self-powered: SMX14 SEX14 SNX14	120Vac or 277 Vac	Less than 24 W	Lead-Calcium Long-Life Lead Nickel-Cadmium	Min. 90 minutes

How To Order (example)

How To Order AC-Only and AC/DC Exit Signs

Incandescent models: include two 12 watt lamps for 120VAC operation. For 277VAC, add 277 for transformer mounted inside exit frame. AC/DC models include three additional incandescent lamps for DC operation.

W	SRX	14	R	- 29	- VR
AC/DC Models	Sealed Battery	Series	Face	AC-Only Models	Mini Systems #of
DC Lamp	X=A/C-only or AC/DC		Stencil Face	Voltage Input	heads
Blank=AC-Only	(Self-Powered Models)	X14=Universal;	R=Red	Blank=120VAC	19=1 EF9 head
6=6VDC	SMX=Lead-Calcium	Double face,	G=Green	277=277VAC	29=2 EF9 heads
12=12VDC	SEX=Long Life Lead	with canopy and	Open Face*		Blank=0 heads
24=24VDC	SNX=Nickel-Cadmium	backplate	RW=Red/White		
	(Mini System)		WR=White/Red		
	SBX=Lead-Calcium		GW=Green/White		
	SRX=Long-Life Lead		WG=White/Green		
	STX=Nickel-Cadmium				

Choice Of Models

Exit Sign

= AC input (AC-only and AC/DC models): 120Vac or 277Vac

= DC input (AC/DC models): 6, 12 or 24Vdc

= Self-powered: 120/277Vac; Lead-Calcium, long-life lead or Nickel-Cadmium battery

Mini-systems

Remote capacity SBX models

No EF9 mounted heads = 20 Watts remote capacity

Two 5.4-watt EF9 mounted heads = 9 Watts remote capacity

SRX models

No EF9 mounted heads = 12 Watts remote capacity

Two 5.4-watt EF9 mounted heads = no remote capacity

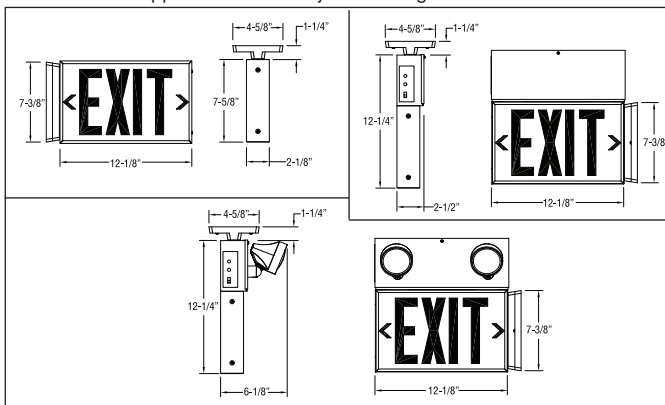
STX models

No EF9 mounted heads = 15 Watts remote capacity

Two 5.4-watt EF9 mounted heads = no remote capacity

Outline and Dimensions

Dimensions are approximate and subject to change.



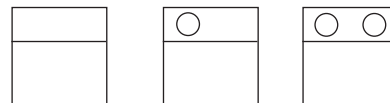
Power Consumption (Mini-Systems): 120/277 Vac 60Hz, 0.3/0.15 Amp

Unit Rating Chart (total DC power available for local and remote emergency lights)

Battery Types	D.C. Voltage	Model Number	*Watts to 87 1/2 % of rated battery voltage			
			1-1/2 hrs	2 hrs	3 hrs	4 hrs
Lead-Calcium	6	SBX14	20	12	10	6
Long-Life Lead	6	SRX14	12	9	6	-
Nickel-Cadmium	6	STX14	15	10	6	-

*Open face required for special wording.

Head Mounting Choices:



No Mounted Head (1) EF-9 Head (2) EF-9 Heads



The **X10 Series** is a rugged steel exit designed for ease of installation. It is a fully universal exit. The side panel is removable, allowing exit faces to be changed as required. The exit is fabricated from 20 gauge steel and is available with an off-white or black finish.

UL Listed

Exceeds UL Exit Visibility Requirement.

Light Sources

- LED, Light Emitting Diodes, red LED's of ALINGAP technology

Sealed Maintenance-Free Batteries

- Nickel-Cadmium • Long Life Lead • Lead-Calcium



Standard Features

Reliability

The **X10 Series** comes complete with a 3-year full warranty.

Unit Data

X10 Series is constructed of rugged 20 gauge steel. Exits include two standard epoxy powder finishes to choose from off-white or black, Universal Mounting, Downlight, Single or Double face, stencil or open face and removable side panel are available.

PulsePlus Charger

PulsePlus circuitry offers 120/277Vac 60Hz, 0.3/0.15 Amp (other inputs available), fused output circuit, dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

Optional Features

Description

Add Suffix

Non-standard input voltage	Specify
Dual Circuit (AC Only)	-2CKT
Flasher (Self-Powered Exit Only)	-FL
Flasher Buzzer Combination, (Self-Powered Exit Only).....	-FZ
Fire Alarm Activated Flasher, (Self-Powered Exit Only)	-FA
Vandal Resistant Screws	-VR
Brushed Aluminum Face	-L

Accessories (order as a separate item)

White Pendant	P*-WT
Black Pendant	P*-BK
Wire Guard Ceiling Mount (Exit Only)	WG5-E
Wire Guard End Mount (Exit Only).....	WG5-E
Wire Guard For Wall Mount (AC Only, AC/DC & Self-Powered Exit Signs)	WG12-E
Wire Guard For Wall Mount (Mini System or Combo).....	WG6-E




*Specify pendant length (12", 24", 36", etc)

Power Consumption (Mini-Systems): 120/277 Vac 60Hz, 0.3/0.15 Amp

Unit Rating Chart (total DC power available for local and remote emergency lights)

Battery Types	D.C. Voltage	Model Number	*Watts to 87 1/2 % of rated battery voltage			
			1-1/2 hrs	2 hrs	3 hrs	4 hrs
Lead-Calcium	6	SBX14	30	20	15	10
Long-Life Lead	6	SRX14	20	12	10	6
Nickel-Cadmium	6	STX14	24	18	12	9

How To Order (example)

L	W	SRX	14	R	-29	-VR
<i>Exit Sign Models</i>	<i>AC Lamp Housing Color</i>	<i>Sealed Battery (Exit Sign Models)</i>	<i>Series</i>	<i>Face Stencil Face</i>	<i>Mini Systems #of heads</i>	<i>Option Suffix</i>
Blank =Other	L =LED	X =AC-only or AC/DC	X14 =Universal;	R =Red	-19 =1 EF9 head	See chart
DC =AC/DC	W =Off-White	SNX =Nickel-Cadmium 120-277 Vac Input	Double face, with canopy and backplate	G =Green	-29 =2 EF9 heads	
	B =Black	<i>(Mini System Models)</i>		<i>Open Face*</i>	Blank =0 heads	
		SBX =Lead-Calcium		RW =Red/White	Head Mounting Choices:	
		SRX =Long-Life Lead		WG =White/Green		
		STX =Nickel-Cadmium				

*Open face required for special wording.

No Mounted Head (1) EF-9 Head (2) EF-9 Heads

Choice of Models

Exit Sign

= AC input: universal 2-wire 120 to 277Vac 50/60Hz

= AC/DC models: universal 2-wire 6 to 24Vdc

= Self-powered models: long-life, sealed Nickel-Cadmium battery

Mini-systems

Remote capacity L-SBX models

No EF9 mounted heads = 30 Watts remote capacity

Two 5.4-watt EF9 mounted heads = 19 Watts remote capacity

Remote capacity L-SRX models

No EF9 mounted heads = 20 Watts remote capacity

Two 5.4-watt EF9 mounted heads = 9 Watts remote capacity

Remote capacity L-STX models

No EF9 mounted heads = 24 Watts remote capacity

Two 5.4-watt EF9 mounted heads = 13 Watts remote capacity

Remote capacity (SRX and STX models)

No EF9 mounted heads = 18 watts remote capacity

Two EF9 mounted heads = 6 watts remote capacity

LED: exit lamp configuration same as self-powered models.

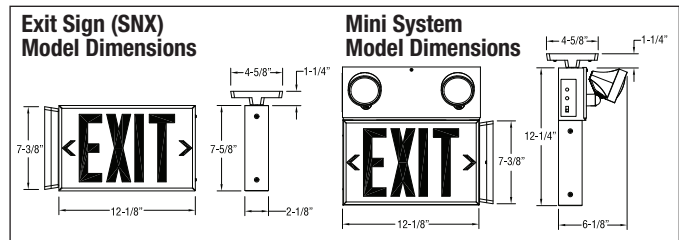
Remote capacity (SRX and STX models)

No EF9 mounted heads = 21 watts remote capacity

Two EF9 mounted heads = 9 watts remote capacity

Outline and Dimensions

Dimensions are approximate and subject to change.



Power Consumption (LED Exit signs)

Model	AC Specs		DC Specs	
AC-only: L-X14	120 to 277Vac	Less than 1.5W	-	-
AC/DC: DCL-X14	120 to 277Vac	Less than 1.5W	6 to 24Vdc	Less than 1.5W
Self-powered: L-SNX14	120 to 277Vac	Less than 3W	Nickel-Cadmium	Min. 90 minutes

The **ELX-MRS Series** is perfect for use where style and design is required in an economical package. Long Life LED's are used in all exit sign models. NiCad batteries are utilized in the self-powered exit Signs. The combo units six volt, MR16, lamps are powered by a maintenance-free, Lead-Calcium battery to provide a clean, adequate amount of light. The snap-together thermoplastic housing facilitates quick assembly making the ELX-MRS the most affordable sign on the market.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Damp location listing is standard on all models.

Light Source (exit)

- LED, Light Emitting Diodes, red LED's of ALINGAP technology

Sealed maintenance-free batteries

- Lead-Calcium
- Nickel-Cadmium

Standard Features

- Rugged thermoplastic construction
- Even illumination for excellent legibility.
- Snap-together design for quick and easy installation
- Universal mounting, complete with 2 faces, backplate, and canopy
- Replaceable knockout directional chevrons
- Energy efficient, long-life LED's (red or green)
- Listed to UL Standard 924

Emergency Models (exits)

- Replaceable, sealed Nickel-Cadmium battery
- Provides a minimum 90 minutes of continuous emergency illumination
- Energy star compliant
- Batteries recharge per UL924 specifications
- All exit sign models consume less than 5 watts

Emergency Models (combination units)

- 6 volt, sealed, maintenance-free Lead-Calcium battery
- Fully adjustable, glare-free, 6 volt MR16 lamps

Charger

- 120/277VAC input
- Temperature compensated
- Short circuit protected
- Push to test switch
- Fully automatic charger
- Brown out protection
- Low voltage battery disconnect
- AC pilot light

ELX-MRS Series Offers Three Models

AC-only exit signs, red or green

Self-powered exit signs, red or green

Self-powered combo units, red or green

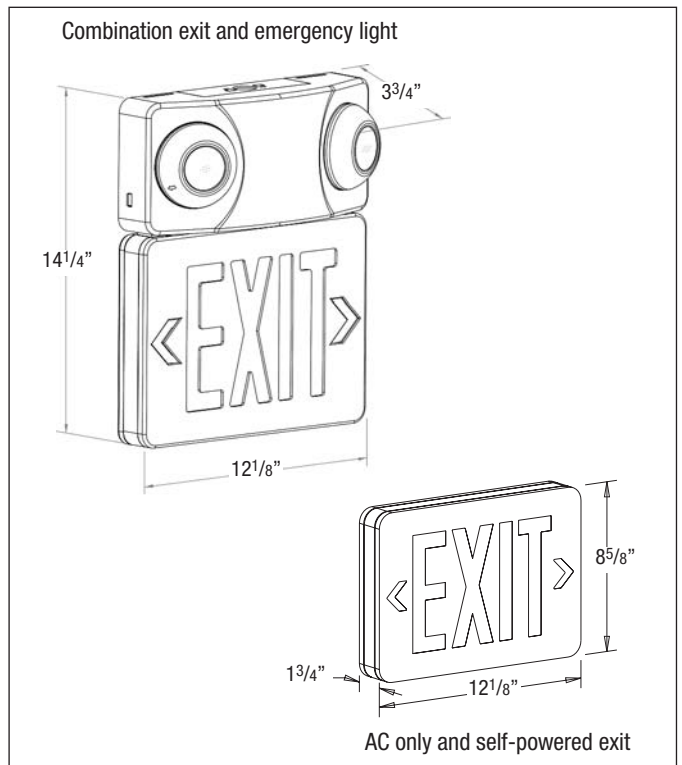
Accessories (order as a separate item)

Description	Add Suffix
Replacement MR16 lamp, 6V 5W	580.0072-E
Wire Guard (exit only)	
Wall mount	WG1-E
Ceiling or end mount.....	WG5-E
Wire Guard (combo)	
Wall mount	WG6-E



Outline and Dimensions

Dimensions are approximate and subject to change



How To Order (example)

ELXN400	R	2MRS	B
Series	Stencil Face	Light Heads**	Colour
ELX400 = AC-Only	R = Red	2MRS = 2 MR16 lamps	B = Black
ELXN400 = Self-powered*	G = Green	6V 5W	

* Combo units only available as self-powered.

** Light heads only applicable to combo units.



The **ELXN400 SQ Programmable Series** confronts job site mounting situations “head-on”. The fully adjustable SQ heads can be configured for top mounted, side mounted, or anywhere in between without disassembly or re-wiring.

UL Listed

Complies with NEC, Life Safety Code and OSHA. Damp location listing is standard on all models.

Light Source (exit)

- LED, Light Emitting Diodes, red LED’s of ALINGAP technology

Sealed Maintenance Free Batteries

- Lead-Calcium

Standard Features

Reliability

- The **Escort II ELXN400 SQ Series** has a three-year full warranty (excluding lamps, pilot lights and fuses)

Housing

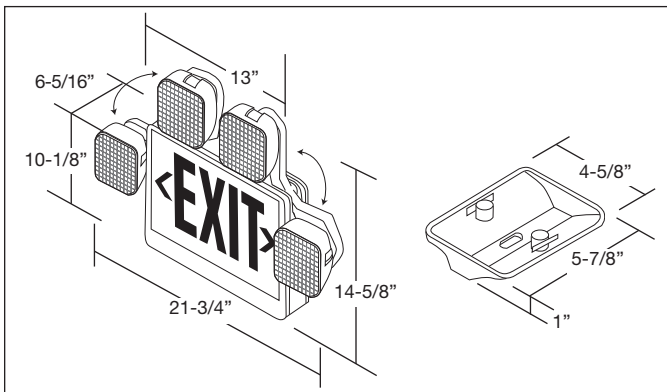
- Injection-molded UV stabilized thermoplastic housing, face plates, and canopy
- UL 94, 5Va flame rating
- Innovative, snap-together design allows for fast installation
- Replaceable directional chevron inserts are easily removed and reinserted
- Two faces, backplate, and canopy
- Two fully adjustable glare-free SQ light heads for egress light

Mounting

- Wall or ceiling mounting
- Canopy snaps to housing with a twist-lock feature tightly securing the canopy to the housing

Outline and Dimensions

Dimensions are approximate and subject to change.



Electrical Features

Electrical

- 120/277VAC dual voltage operation
- Low power consumption - LED’s
- LED indicator light and push button test switch
- Remote capacity - may power additional remote heads (up to 6V 12W) with additional battery
- Low voltage battery disconnect
- All models are damp location listed

Lamps

- LED’s mounted on print circuit board (for exit sign)
- LED lamps are operated in normal (AC input) and emergency (DC input) modes.
- 2 x 6V 5.4 watts DC T5 wedge base lamps for emergency mode

Battery

- Sealed maintenance-free lead-calcium battery
- Additional battery available for 12 watts remote load or extended unit run time (see How To Order).

Optional Features

Description

Add Suffix

*Remote Capacity (in watts)R

Accessories (order as a separate item)

Wire Guard (heads in any position)WG10-E
 Replacement battery860.0004-E
 Replacement lamp (standard)570.0012-E

* Do not exceed rated unit capacity.

How To Order (example)

ELXN400	R	2SQ	R
Series	Stencil Face (letters)	Light Heads	Capacity Indicator
Self-powered	R = Red G = Green	-2SQ = Lamp standard 6V 5.4W	Blank =No remote capacity R = 12 watts remote capacity*

* Do not exceed rated unit capacity.



X61-X62 Self-Luminous Exit EverLite Series

The **EverLite Series** rugged thermoplastic construction offering contemporary design, smooth rounded corners and vibrant faceplate color make it perfect for any distinguished exit sign application. Signs are suitable for use in hazardous, explosive, corrosive, humid, or any other harsh environments. EverLite Exit signs will not cause or contribute to the ignition of any hazardous or explosive atmospheres.

- **Non-Electric**
- **No Wiring Needed**
- **No Energy Required**

UL Listed Complies with NFPA, Life Safety Code and OSHA.

Standard Features

Reliability

EverLite signs are spark free and suitable for use in hazardous, explosive, corrosive, humid or any other harsh environment. Emergi-Lite will replace free of charge any product in which the luminosity is found to be defective during its specified luminous life, or which falls below specified luminous life.

Unit Data

Constructed of rugged thermoplastic, the EverLite Series offers contemporary slim line design with smooth rounded corners, and vibrant faceplate color. Frame finishes include off-white or designer black. Signs mount flush to wall or ceiling surfaces, a canopy is not required. The entire unit is tamperproof and completely self-contained.

Legend

Legend shall be constructed of non-glare polycarbonate, .015 thick, open letters, field programmable arrows, and white letters with background colors of red or green. Contrast ratio for both conditions shall exceed .5, and shall meet requirements of UL 924 and NFPA 101.

Self-Luminous

The SLX60 Series exit signs have phosphor-coated borosilicate tubes filled with tritium gas. Tritium gas energizes the phosphor-coated tubes in the EverLite sign. The low energy beta emission of tritium striking the phosphor coating inside the Pyrex® glass tubes causes illumination to be generated. Pyrex® is a registered trademark of Corning Glass.

Optional Features

Description	Suffix
Aluminum Frame	-AF
Fully Recessed Frame	-FR
Aluminum Frame and Polycarbonate shield	-AFPC

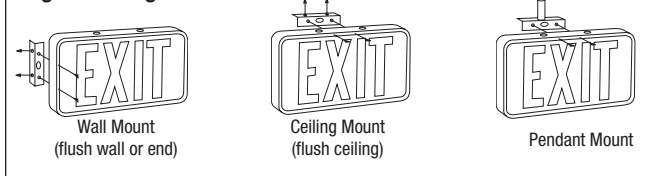
Accessories

White PendantP*-WT

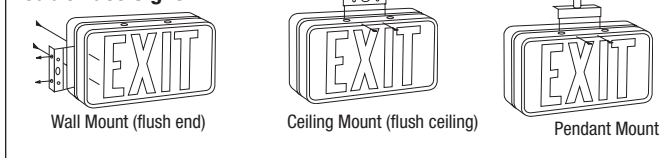
*Specify length in inches (12, 24, 36, etc)

Mounting

Single Face Signs



Double Face Signs



Applications (for use in harsh or dangerous environments)

- Meets full test specifications of ANSI (American National Standards Institute)
- Meets requirements of National Electrical Codes, Class I and II conditions
- Licensed for distribution by U.S. Nuclear Regulatory Commission

Architectural

- Schools Hotels • Theaters • Restaurants • Banks • Office Buildings
- Hospitals • Institutions • Parking Garages • Amusement Parks

Harsh

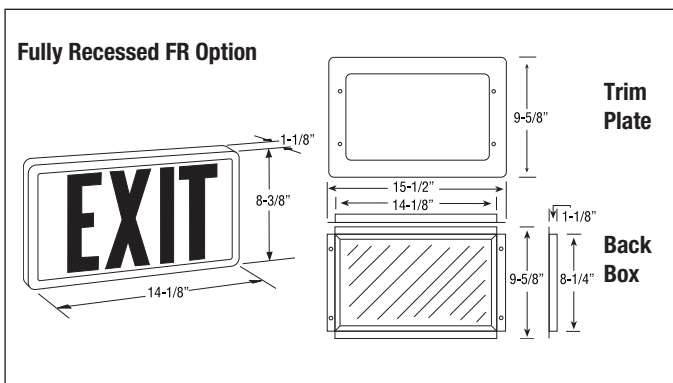
- Mines • Spray Booth Areas • Refineries • Off Shore Rigs • Paper Mills
- Chemical Plants • Food Processing Plants • Grain Elevators

Licenses and Codes

- **U.L.** — Underwriters Laboratories
- **OSHA** — Occupational Safety and Health Association
- **NFPA** — National Fire Protection Association
- **BOCA, ICBO, SBCCI** — American Building Officials
- **MSHA** — Mine Safety and Health Administration
- **NRC** — Nuclear Regulatory Commission
- **Uniform, Basic, and Standard Building Codes**
- **City of Los Angeles Approved**

Outline and Dimensions

Dimensions are approximate and subject to change.



How To Order (example)

	Model #
10 year single face sign	SLX-1061
20 year single face sign	SLX-2061
10 year double face sign	SLX-1062
20 year double face sign	SLX-2062

W	-	SLX	-	10	61	R	-	P60
Frame Color		Series		10 Year	Single Face	Legend		Option
W=Off-White						R=Red		Pendant
B=Black						G=Green		

Special Wording Configurations



Illuminated Signage

Custom-worded, illuminated signage is available using the same sturdy construction and electrical design as Emergi-Lite exit signage. A wide range of sign body options and colour choices are available to suit any application.

Standard Features

- The same sturdy construction and electrical design used in our exit signs, is used to produce our custom-worded, illuminated signage
- Sign bodies - steel, extruded and die-cast aluminum, weatherproof, flame-retardant polycarbonate, high impact thermoplastic, recessed housing
- Also available with combination units
- Custom wording – any style of lettering, any language, any alphabet, any special characters
- Graphics – logos, standard symbols, custom art
- Colour choices – sign bodies, message, faceplate panel
- Illumination – LED (light-emitting diodes) - other light sources available
- Contact your local Emergi-Lite representative to discuss your specific requirements





LED Replacement Lamps QuickSwitch LED Retrofit Kits

- Convert high consumption incandescent and fluorescent lamps to energy efficient LED lamps.
- Reduce energy consumption by up to 90%
- Improve visibility and reliability
- Reduce maintenance costs

QuickSwitch

- Quick and easy to install
- Available with wide range of lamp bases for quick lamp to lamp replacement
- Available in high brightness or ultra high-brightness LEDs
- 120Vac

Power Consumption

Model	AC Specs	
QS	120Vac	0.90W
QS-F	120Vac	1.6W

How To Order (example)

QS

Model

QS = Standard version

-C

Base

-C = Candelabra

-I = Intermediate

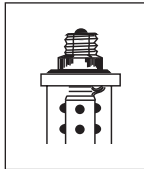
-M = Medium

-B = Bayonet

-F = Compact fluorescent

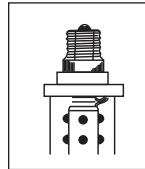
QS-C

Candelabra Base



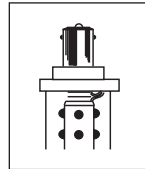
QS-I

Intermediate Screw Base



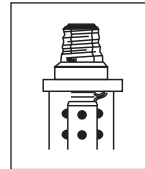
QS-B

D.C. Bayonet Base



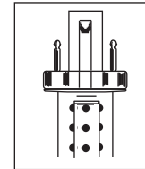
QS-M

Medium Screw Base



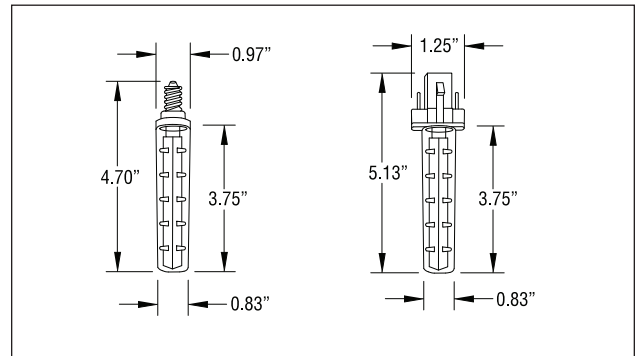
QS-F30

PL 5, 7 or 9 Watt Base



Outline and Dimensions

Dimensions are approximate and subject to change.



LED Retrofit Kit

Standard Features

- Easiest to install in its class
- Compact size makes it ideal for virtually all exit signs
- Can be retrofitted directly on fluorescent ballast
- Long-Life, energy-efficient red **ALINGAP** LED technology
- Available with AC adaptor for all type of lamp sockets

Power Consumption

Model	AC Specs	
LED-RX	120Vac	1.7W

How To Order (example)

LED-RX

Model

LED-RX = for standard application

-C

Base

-C = Candelabra

-I = Intermediate

-M = Medium

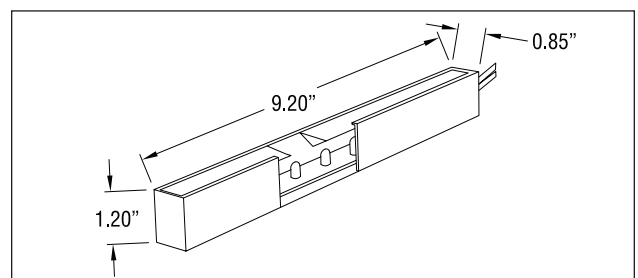
-B = Bayonet

-F = Compact fluorescent



Outline and Dimensions

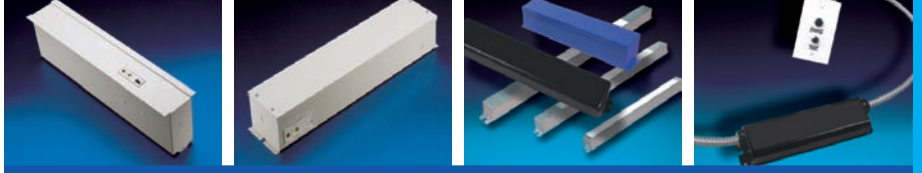
Dimensions are approximate and subject to change.



Note: Please consult factory for Green LED option.

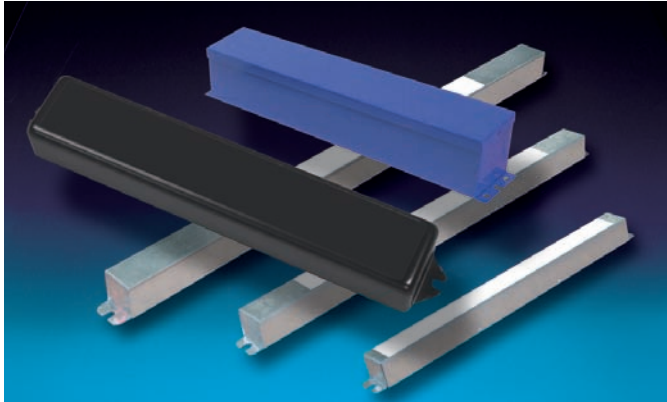
NOTES

Lined area for taking notes.



Fluorescent Emergency Lighting Ballasts

FPS Series	78
FPDL Series	79
FPS-R / FPS-T Series	80



Standard Features

Reliability

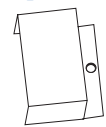
The FPS Series has a 3-year full warranty. Each unit is fully computer tested.

Unit Data

The FPS Series is self-contained in one compact housing for easy installation and maximum mounting flexibility. FPS units can be wired to operate with switched, unswitched or normally off fixtures without affecting normal operation. Units are also compatible with standard, energy-saving, dimming and electronic AC ballasts. Upon failure of AC power, FPSI-32 and FPSU-28 Series automatically switches to the emergency mode, maintaining illumination of one lamp within the fixture. FPSI/U and FPS-HL units will maintain operation of one or two lamps when switched to the emergency mode. When AC power is restored, the FPS Series automatically returns the fluorescent lamps to normal operating mode and the solid state charger begins recharging the battery.

The FPS-540 is self-contained in one compact housing for easy installation and maximum mounting flexibility. The FPS-540 can be wired to operate a switched, unswitched, or normally off fixtures without affecting normal operation. The FPS-540 operates T5 or T8 lamps, including HO and 4-pin long compact fluorescent lamps from 40 -55 watts, with an initial output of up to 1300 lumens. When AC power is restored, the FPS-540 automatically returns the fluorescent lamps to the normal operating mode and the solid state charger begins recharging the battery. Testing the FPS-540 is made easy by using a one-piece indicator and test switch.

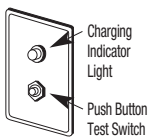
Optional Features



Description

External mounting kit (not required for FPS-HL) includes wire bundle covers for external mounting-R
Damp location listing (see unit selection chart)-DL

Add Suffix



Accessories

Remote test switchRTS-1
includes single gang chrome finished mounting plate
Test switch kit for FPSI32-TBTS

How To Order (example)

FPSI-32	-	R
Series		Option Suffix
FPS-500		External mounting kit
FPS-825		
FPSU-28		
FPSI/U		
FPS-HL		
FPS-540		
FPS-80D		

The FPS Series emergency ballasts are used to convert new or existing fluorescent fixtures into emergency lighting units. Eliminating the cost and installation of separate, sometimes unsightly emergency lighting units. Seven models are offered to satisfy different applications requirements and lumen output:

FPS-500 and FPS-825 operate with most 2'-4' T5 or T8 PL lamps. The FPS-825 also operates HO and 4 pin long compact fluorescent lamps from 40 through 55 watts.

The FPSI-32 and FPSU-28 are about the size of standard ballasts and can be installed inside the ballast channel of most fluorescent fixtures. These units are also UL listed for mounting kit option (R).

The FPSI/U is UL listed for mounting inside or outside of the fixture.

The FPS-HL is a high output fluorescent emergency lighting ballast that is capable of producing 1450 to 3000 lumens.

UL Listed to Standard 924.

Complies with NEC, Life Safety Code and OSHA

Sealed Maintenance-Free

- Nickel-Cadmium Batteries

Lamp Operation

FPS Series can operate U-Shaped, T-8, Circline, Octron* and energy saving types.

FPS-500 Series can operate T5 or T8 PL lamps

FPS-825 Series can operate T5, T8, HO or 4 pin long compact PL lamps

FPSI/U Series should be used for Power Groove*, VHO and SHO lamps.

FPS-HL Series can operate Single, BI-PIN and 4 PIN lamps.

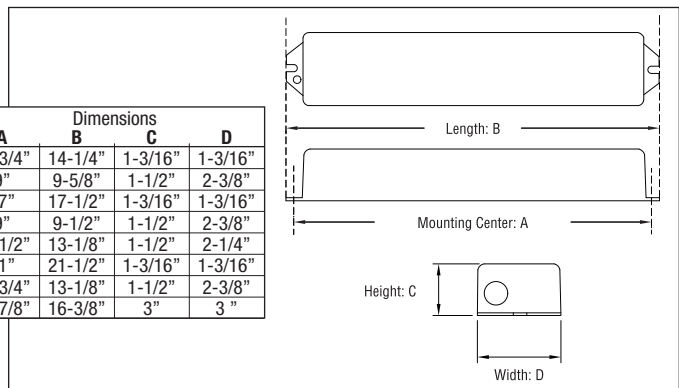
*Octron is a registered trademark of Sylvania *Power Groove is a registered trademark of G.E.

Unit Selection Chart

Model No.	Lamp Operated in Emergency Mode	Emergency Illumination Time	Lumens	Wire End Caps
FPS-500	1 lamp 2'-4'	90 min.	500	Optional order #EC54
FPSI-32	1 lamp 2'-4' (20W-40W)	90 min.	550	Optional order #EC6
FPS-825	1 lamp 2'-4'	90 min.	825	Optional order #EC54
FPSU-28	1 lamp 2'-8' (45W-75W) or 2 lamps 2'-4' (20W-40W)	90 min.	700	Included
FPSI/U	1 lamp 2'-8' (20W-215W) or 2 lamps 2'-4' (20W-40W)	90 min.	1300	Included
FPS-540	1 lamp 2'-4' (40W-50W) Most 2'-4' T5 or T8 and 40-55 watts 4 pin compact fluorescent	90 min.	1300	Optional order #EC54
FPS-80D	Most 2'-8' single, bi-pin T8-T12, long compact, HO+HVO fluorescent lamps	90 min.	1300	Not required
FPS-HL	1 lamp 2'-8' or 2 lamps 2'-4' or 42W 4 pin compact fluorescent	90 min.	3000	Not required

Outline and Dimensions

Dimensions are approximate and subject to change.



Model No.	Dimensions			
	A	B	C	D
FPS-500	13-3/4"	14-1/4"	1-3/16"	1-3/16"
FPSI-32	9"	9-5/8"	1-1/2"	2-3/8"
FPS-825	17"	17-1/2"	1-3/16"	1-3/16"
FPSU-28	9"	9-1/2"	1-1/2"	2-3/8"
FPSI/U	12-1/2"	13-1/8"	1-1/2"	2-1/4"
FPS-540	21"	21-1/2"	1-3/16"	1-3/16"
FPS-80D	12-3/4"	13-1/8"	1-1/2"	2-3/8"
FPS-HL	15-7/8"	16-3/8"	3"	3"



Emergency Lighting Fluorescent Packs **FPDL Series**

The **FPDL Series** are self-contained emergency power packs used to convert compact fluorescent recessed downlight fixtures into emergency lights. Operation is automatic. In the event of a power failure, the FPDL Series will cold strike and operate a single lamp in a fixture for 90 minutes. Installation does not affect normal lamp operation.

UL Listed

New York City approved, Complies with NEC, Life Safety Code and OSHA

Sealed Maintenance-Free Batteries

- Nickel-Cadmium



Standard Features

Reliability

The **FPDL Series** comes complete with a 3-year full warranty. Each unit is fully computer tested.

Unit Data

The FPDL Series is 120/277 dual voltage and compatible with normal and high power factor ballasts. Units are UL listed for new or retrofit installation with indoor fixtures, not for use in hazardous areas or in heated air outlets. The maintenance free Nickel-Cadmium batteries provide 90 minutes of emergency operation. A test switch with pilot light can be mounted on the wall or ceiling.

Application

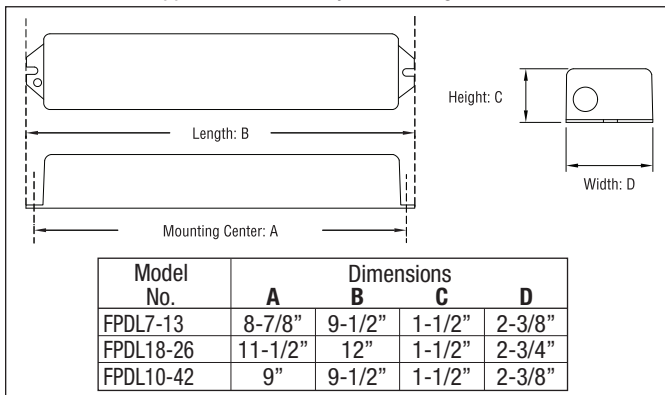
The FPDL 7-13 and FPDL 18-26 are designed to operate with most single or double recessed downlight fixtures. NOTE: Must be used with single lamp ballast only. The FPDL 10-42 can be used with most 10-42 watt 4 pin quad and triple compact fluorescent lamp, with (1) lamp 650 lumens and (2) lamps 350 lumens each lamp output. Check fixture and application for mounting and connecting space.

Installation Kit

The FPDL Series is installed within two feet of the recessed downlight. The installation kit includes a power pack, two 24 inch flex cables with end connectors, a charge indicator light and test switch preassembled to a trim plate. A switch box is included with the FPDL 7-13 and FPDL 10-42. Mounting hardware and fixture supplied by other.

Outline and Dimensions

Dimensions are approximate and subject to change.



Lamp Operation

FPDL7-13 Series

Lumens: 650

Lamps Operated in Emergency (90 minutes): (1) 2 pin compact fluorescent lamp 7W, 9W or 13W

Lamps Types: 7W or 9W twin tube, double twin tube, 180ma, or 13W twin tube, double twin tube, 285ma fluorescent.

Base Types: G23, GX23, G23-2, GX23-2, G242-1

FPDL18-26 Series

Lumens: 650

Lamps Operated in Emergency (90 minutes): (1) 2 pin compact fluorescent lamp 10W, 13W, 18W or 26W

Lamps Types: one or two twin tube, double twin tube (quad), or triple twin tube compact fluorescent

Base Types: G24d-1, G24d-2 and G24d-3

FPDL10-42 Series

Lumens*: (1) lamp 650, (2) lamps 350 each lamp output

Lamps Operated in Emergency (90 minutes): (1) 10-42 watt or (2) 10-26 watt

Lamps Types: 10-42 watt 4 pin, rapid start compact lamps (twin tube, triple tube, quad, 2D and stright)

Base Types: G24q-1, G24q-2, G24q-3, 2G10, 2G11, med. bipin and GR10q

* Optional damp location listing available.

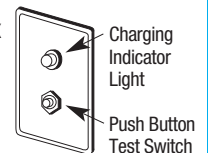
Accessories

Description

Remote test switch.....RTS-1

Recommended for inaccessible locations. Test switch and charging indicator on a single gang chrome mounting plate.

Add Suffix



How To Order

Simple specify model number:

FPDL 7-13

FPDL 18-26

FPDL 10-42

FPDL10-42DL Damp location listed.

FPS-R & FPS-T Series *Fluorescent Emergency Packs*



The **FPS-R & FPS-T Series** was developed to eliminate unsightly conventional emergency lighting units and at the same time incorporate the emergency lighting unit into the normal fluorescent lighting system. In this way, high lumen levels can be maintained during a power failure without interrupting the lighting design.

Sealed Maintenance-Free Batteries

- Nickel-Cadmium • Pure Lead • Lead-Calcium

Unit Rating Chart

REMOTE MOUNTED (FPS-R)				
Unit Type	Lumens*	Battery Suffix	Sealed Maintenance-Free Battery Types	Number of Lamps
FPS-R	720	C	Nickel-Cadmium	1
FPS-R	720	E	Pure Lead	1
FPS-R	720	M	Lead-Calcium	1
FPS-R	1800	C	Nickel-Cadmium	1
FPS-R	1800	E	Pure Lead	1
FPS-R	1800	M	Lead-Calcium	1
T-BAR MOUNTED (FPS-T)				
FPS-T	720	C	Nickel-Cadmium	1
FPS-T	720	E	Pure Lead	1
FPS-T	720	M	Lead-Calcium	1
FPS-T	1800	C	Nickel-Cadmium	1
FPS-T	1800	E	Pure Lead	1
FPS-T	1800	M	Lead-Calcium	1
FPS-T	720	C	Nickel-Cadmium	2
FPS-T	720	E	Pure Lead	2
FPS-T	720	M	Lead-Calcium	2
FPS-T	1800	C	Nickel-Cadmium	2
FPS-T	1800	E	Pure Lead	2
FPS-T	1800	M	Lead-Calcium	2

Standard Features

Reliability

The **FPS-R & FPS-T Series** comes complete with a 3-year full warranty. Each unit is fully computer tested.

Unit Data

All metal construction with white baked enamel finish and 3" pre-wired fixture whip. During normal operation, when the AC line voltage is present, the fixture will fully illuminate by means of the regular ballast. At the same time, the emergency ballast is supplied with AC, which transforms and rectifies into a low DC voltage to recharge the battery and maintains it in a fully charged condition. When the AC fails, a solid state voltage sensor instantly turns on a high frequency inverter which supplies one or two* lamps in the fixture for a minimum of 90 minutes. At the end of the rated time a low voltage sensor disconnects the battery to prevent over-discharging. When the AC returns, the inverter switches off and the battery begins to recharge. *Available in FPS-T only, can run 2 lamps in a 2 or 4 lamp fixture.

Charger

Circuitry offers 120/277 Vac, 60 Hz., 0.3/0.15 Amp (other inputs available), fused output circuit(s), dual diagnostic indicator lights, temperature compensation, sealed relay, low voltage battery disconnect, brownout protection and lockout (automatic battery connect).

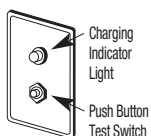
Accessories

Description

Remote test switchRTS-1

Add Suffix

Available for installation where routine testing via the units standard integral test switch would be difficult due to either fixture location or inaccessibility. This option consists of a push button test switch and pilot light, mounted on a single gang switch plate.



Cabinets

Remote: (external) mounts on top or beside fixture. #18 Gauge steel, finish white baked enamel and pre-wired 3" flexible conduit fixture whip.

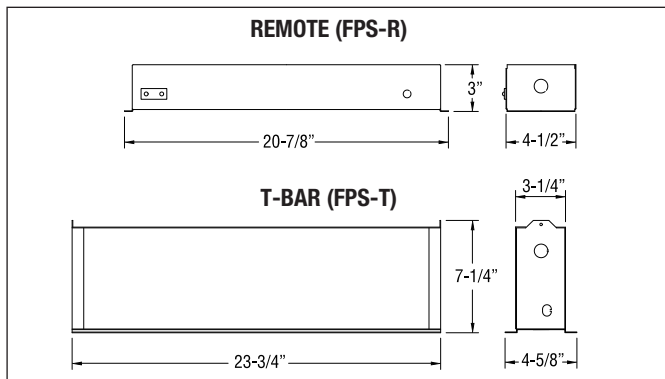
T-Bar: mounts in T-Bar struts beside fixture. #18 Gauge steel, finish white baked enamel and mounting eyes for fixture suspension and a pre-wired 3" flexible conduit fixture whip.

Servicing: Backplate lifts off for full access to battery and input/output wires.

*Lumens in emergency mode on typical F-40 type lamps

Outline and Dimensions

Dimensions are approximate and subject to change.



How To Order (example)

FPS	-	T	-	720	-	M	-	1
Series		Cabinet Type		Lumens		Battery Type		# of lamps operating
						Lead-Calcium		



Central Systems

AC Central Systems

82

AC Central Systems

Emergi-Lite central systems are battery based power systems designed to operate loads in the event of a utility failure or brownout condition. All systems are self-contained and fully automatic.

Batteries offered with central systems:

- Sealed Maintenance-Free Lead-Calcium (AC & DC Systems)
- Refillable Nickel-Cadmium (AC Systems)

AC Systems

Single Phase Fast Transfer IPS

Single phase power systems for incandescent and fluorescent emergency lighting systems

- 98% efficient - 2mS transfer time
- PWM/IGBT technology
- Micro-processor control
- User programmable with password protection
- Tested to UL 924
- Automatic event and alarm log
- RS232 communications port
- Input circuit breaker
- Modular design
- Low audible noise
- Normally off output
- From 1.25KVA to 6.25KVA



Single Phase UPS

Single phase power systems for HID, incandescent and fluorescent emergency lighting systems.

- 90% efficient
- PWM/IGBT technology
- Micro-processor control
- User programmable with password protection
- Tested to UL 924
- Automatic event and alarm log
- RS232 communications port
- Input circuit breaker
- Modular design
- Low audible noise
- Normally on output
- From 4.3KVA to 18KVA

Three Phase UPS

On-line AC power systems for HID incandescent and fluorescent emergency lighting systems.

- 90% efficient
- PWM/IGBT technology
- Micro-processor control
- User programmable with password protection
- Tested to UL 924
- Automatic event and alarm log
- RS232 communications port
- Input circuit breaker
- Modular design
- Low audible noise
- Internal battery circuit breaker/fuse
- From 10KVA to 60KVA



For more information on Emergi-Lite Central Systems, please refer to our Inverter System Catalogue or visit our website at www.emergi-ite.com/usa/catalogue.html

Note: All information and specifications contained on this page are subject to change without notice





Remote Fixtures

NEW Lux-Ray Series	84
PRO-2, DLM-2 (Discontinued) and NEW Revelation Remote Series	85
Literay and Survive-All EF39	86
Distinction Series (Surface and Recessed)	87-88
Surface Mounted Series (EF16 Discontinued)	89-90
Recessed Mounted Series (EF20 Discontinued)	91
Weatherproof Series	92



Standard Features

Reliability

The **Lux-Ray Series** comes complete with a 3-year full warranty (excluding lamps).

Unit Data

The **Lux-Ray** units are made of durable cast aluminum housing, finish with textured polyester powder coat paint. Four colors are available: off white, black, platinum gray and dark bronze. The vacuum-plated die-cast reflector will last over time. The lens is made of an impact and UV resistant polycarbonate.

Units can be installed on various J-box with the universal mounting pattern. It can also be surface mount using the rigid conduit entry provision on the top of the unit.

Lamp information

The **Lux-Ray** units are furnished with two high-output Xenon lamps. These lamps, combined with a patent pending reflector, deliver an incredible center-to-center spacing. The reflector has been designed to provide an evenly distributed illumination pattern for corridors, up to 6' wide.

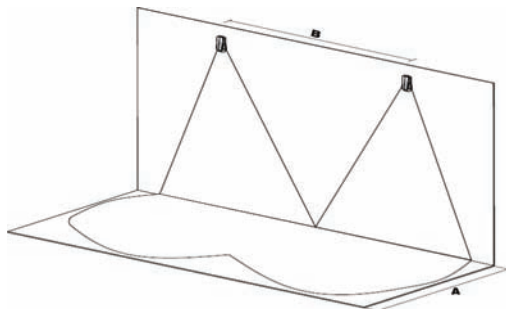
Options

The **Lux-Ray** Series is offered in remote and self-powered configurations. It can be used in a wide range of applications, environments:

- LUX Remote head: UL listed for damp, wet and cold locations.
Operating temperature: -40 °C to +60 °C (-40°F to +140°F)

ISO Curve

Lamp Type	Mounting height	Center-to-center	
		A=3' A=6'	
2 X 6W	7.5'	B=28' B=19'	
	8.5'	B=25' B=18'	
2 X 10W	7.5'	B=30' B=28'	
	8.5'	B=34' B=30'	



Remote Fixture

The Lux-Ray Series combines the photometrical performance to a visually appealing design.

An efficient reflector combined with two Xenon lamps deliver an incredible center-to-center spacing.

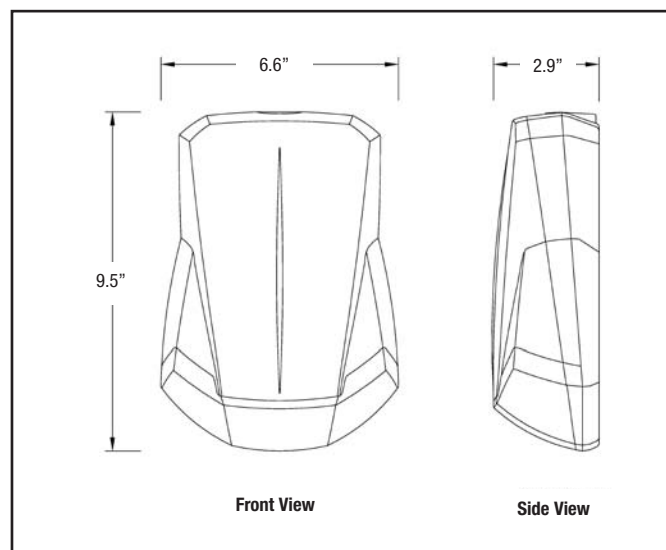
The die-cast aluminum housing is offered in a wide range of colors to complement any interior. It will blend with the most sophisticated décor.

With it's fully gasket housing, the Lux-Ray™ Series is also ideal for extreme outdoor environments.

Designed to meet the needs of architects and designers without sacrificing safety, this fixture is available in a wide range of colors to complement any interior.

Outline and Dimensions

Dimensions are approximate and subject to change. Unit supplied with bar hanger kit package.



Note: Photometric results shown are based on a simulation using the AGI32 software with a 1 foot-candle average and 0.1 foot-candle minimum with a 40:1 maximum ratio. Emergi-Lite assumes no responsibility for local requirements or specific project variable. This is a guideline to be used as a design aid, not guarantee of any code compliance.

How To Order (example)

LUX Series	(ZU) Lamp Wattage	-OW Color
LUX = remote fixture (-40°C to +60°C)	(ZU) = 6V-6W Xenon lamps (ZV) = 6V-10W Xenon lamps (ZW) = 12V-6W Xenon lamps (ZX) = 12V-10W Xenon lamps	-OW = off-white -B = black -BZ = dark bronze -PG = platinum gray

*Other colors available at a premium.
Consult the factory.

PRO-2, DLM-2 and Revelation Series



PRO-2 Remote Series

Standard Features

The Provider Series is the new look in emergency lighting design. Its sleek low profile thermoplastic body and transparent polycarbonate lamp shield combine to make a contemporary style that's just right for today's aesthetic demands. Finished in off-white, the provider will compliment a variety of interiors in stores, offices, theaters, restaurants and shopping malls. Provider is versatile too, its body, measuring only 11" X 5" can be mounted in any orientation on wall or ceiling.



How To Order

6 volt 10.8 total unit wattage	Model 6PRO-10
12 volt 18 total unit wattage	12PRO-2(ZF)
24 volt 18 total unit wattage	24PRO-2(ZN)



DLM-2 Remote Series

Standard Features

Two flush mounted fresnel lenses add a contemporary, elegant style to the DLM-2. Constructed of thermoplastic, its compact design measures 11 1/2 inches by 12 3/8 inches. The DLM-2 Series has a light textured off-white finish and is compact in design which blends well with a variety of architectural surfaces. No screws or other mounting hardware is visible. It can be mounted in any orientation on walls or ceilings.



How To Order

2 lamps 6V 5.4W	Model 6DLM-10
2 lamps 6V 7.2W	6DLM-14

Standard Features

The Revelation Series is architecturally designed for unobtrusive use in walls with cavity (dry-walls with 4-inch studs) or un-insulated ceilings with horizontal beams or T-bar structures. In normal conditions (stand-by) the unit is completely concealed in the wall or ceiling. In case of power failure the door of the unit rotates open 180° and exposes the emergency lights (two high-efficiency MR16 lamps) to illuminate the path of egress. Once AC power returns or at the end of discharge period, the lights turn off and the door rotates closed automatically, driven by a patent-pending, energy storage circuit. The fixture does not require any back box for pre-installation. For remote AC generator applications please consult factory.



Revelation Remote Series



How To Order

(REQUIRES EXTERNAL AC AND DC SOURCE)

12 volt with (2) 12 watt lamps	12RTR2-12
24 volt with (2) 12 watt lamps	24RTR2-12
12 volt with (2) 20 watt lamps	12RTR2-20
24 volt with (2) 20 watt lamps	24RTR2-20
12 volt with (2) 35 watt lamps	12RTR2-35
24 volt with (2) 35 watt lamps	24RTR2-35
12 volt with (2) 50 watt lamps	12RTR2-50
24 volt with (2) 50 watt lamps	24RTR2-50
12 volt with (2) 20 watt lamps, High Lumen Output	12RTR2-20H
12 volt with (2) 35 watt lamps, High Lumen Output	12RTR2-35H
12 volt with (2) 50 watt lamps, High Lumen Output	12RTR2-50H

Option

Damp Location **DL**

Literay and Survive-All EF39 Series

Literay Remote Series



NEMA-3R



Standard Features

Housing

The premium die-cast aluminum housing is designed to withstand extreme weather conditions and yet provide aesthetically pleasing looks with a compact footprint. Ideal for damp, wet and cold location specifications, Literay provides a fully gasketed cover with the option of vandal-resistant screws. This unique wall-sconce is available in four textured powder coat paint finishes; white, black, dark bronze and dark gray (optional finishes available for custom projects – consult the factory).

Diffuser

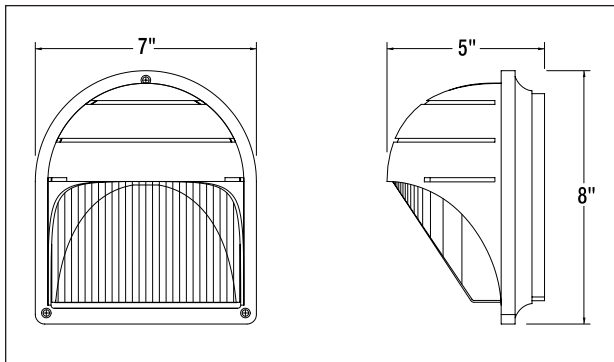
This specially manufactured polycarbonate diffuser maximizes light output, and completes the wall sconce decorative lines. Literay's robust polycarbonate lens is the ideal choice for applications where impact- and tamper- resistant emergency lighting is specified.

Lamp

Precise beam control is provided with two fully adjustable MR16 halogen lamps, secured in an attractive molded swivel assembly for maximum light output. Literay will provide an average of one-foot candle along the path of egress. Literay can also be used with the premium option of the high efficiency 3-Watt MR16 white LED lamp.

Outline and Dimensions

Dimensions are approximate and subject to change.



How To Order MODEL EXAMPLE:

LITE	-2	(MI)	-WT	Option
Series	# of Lamps	Lamp Type/Wattage	Color	
Lite=	-2=2 lamps	(L)=LED, 12V-5W	-WT=white	VR=vandal resistant screws
Exterior	(standard)	(MI)=MR16, 6V-6W	-BK=black	
remote	-1=1 lamp (AC only)	(MJ)=MR16, 6V-10W	-DG=dark gray	
		(MK)=MR16, 12V-12W	-BZ=dark bronze	
		(MD)=MR16, 24V-20W		
		(MS)=MR16, 24V-12W		
		(MA)=MR16, 12V-20W		
		(AC)=1 med. base socket only (max. 60W), no lamp included, for non-emergency		

Survive-All EF39 Series



NEMA-4X



Standard Features

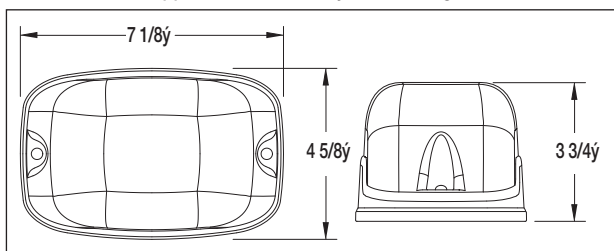
The Survive-All EF39 Series, Nema 4X rated, remote fixtures have a fully gasketed cast aluminum back plate, with a clear UV and impact resistant cover. This remote delivers unsurpassed path of egress illumination – up to 70 feet, center-to-center when using 2-20W MR16-IR lamps. The EF39 is available in single or double head models with the option of highly efficient MR 16 lamps or the 3-Watt MR16 white LED lamp. Easy lamp replacement, tool-less lamp aiming and easy installation on a four-inch octagonal box all make this remote the perfect choice for any environment. Comes standard with tamper-proof screws and bit. NSF Certified for food processing plants. Choice of three colors, off-white, black or gray. (Also available as a battery unit, refer to Survive-All™ SV Series, pages 52 and 53).

How To Order MODEL EXAMPLE:

EF39	(MK)	Color
Series	Lamp Type/Wattage	
EF39=single NEMA 4X	(MI)=MR16, 6V-6W	Blank=white
EF39D=double NEMA 4X	(MJ)=MR16, 6V-10W	-BK=black
	(MK)=MR16, 12V-12W	-GY=gray
	(MW)=MR16, 12V-20W-IR	
	(MS)=MR16, 24V-12W	
	(MD)=MR16, 24V-20W	
	(L)=L.E.D. 12V-5W	

Outline and Dimensions

Dimensions are approximate and subject to change.



PATENT PENDING



Surface Designer Series **Distinction Series**

The Distinction Series emergency fixtures have been specially built to meet the needs of contemporary decor professionals. Take a look at these fixtures and discover for yourself an entirely new design vocabulary of emergency lighting function and form.



EF150 / EF150D / EF150T

Color: White or black

EF150

Description: Single compact adjustable decorative lighting head
Dimensions: 4.48" diameter base, 5.2" height

EF150D-B

Description: Double compact adjustable decorative lighting heads
Dimensions: 4.48" diameter base, 4.0" height

EF150T

Description: Triple compact adjustable decorative lighting heads
Dimensions: 11.0" diameter base, 5.2" height



EF180 / EF180D / EF180T

Color: White or black with blue rim

EF180

Description: Single compact adjustable decorative lighting head
Dimensions: 4.48" diameter base, 5.2" height

EF180D-B

Description: Double compact adjustable decorative lighting heads
Dimensions: 4.48" diameter base, 4.0" height

EF180T

Description: Triple compact adjustable decorative lighting heads
Dimensions: 11.0" diameter base, 5.2" height



EF181 / EF181D / EF181T

Color: White or black

EF181

Description: Single compact adjustable decorative lighting head
Dimensions: 4.48" diameter base, 5.2" height

EF181D-B

Description: Double compact adjustable decorative lighting heads
Dimensions: 4.48" diameter base, 4.0" height

EF181T

Description: Triple compact adjustable decorative lighting heads
Dimensions: 11.0" diameter base, 5.2" height

How To Order (example)

EF181		-B	(MA)
Series	# of Heads	Color	Lamp Wattage
	Blank=Single	Blank=White	(MA)=20 watts/12 Volts
	D=Double	-B=Black	(MB)=35 watts/12 Volts
	T=Triple		(MC)=50 watts/12 Volts
			(MK)=12 watts/12 Volts
			(MJ)=10 watts/6 Volts

Distinction Series *Remote Recessed Designer*

The **EFR Distinction Remote Collection** emergency fixtures have been specially built to meet the needs of contemporary decor professionals. Take a look at these fixtures and discover for yourself an entirely new design vocabulary of emergency lighting function and form.

EFR2

Description: Decorative lighting head. Requires recessed housing.
 Dimensions: 4.0" diameter base
 Color Suffix: WH-White, BK-Black, CH-Chrome, PB-Polished Brass, BN-Brushed Nickel



EFR8NB

Description: Decorative lighting head. Requires recessed housing.
 Dimensions: 4.0" diameter base
 Color Suffix: WH-White, BK-Black, CH-Chrome, PB-Polished Brass, BN-Brushed Nickel



EFR8R

Description: Decorative lighting head. Requires recessed housing.
 Dimensions: 4.0" diameter base
 Color Suffix: WH-White or BN-Brushed Nickel



EFR9WH

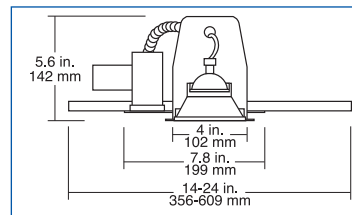
Description: Decorative lighting head. Requires recessed housing.
 Dimensions: 4.0" diameter base
 Color Suffix: WH-White



Recessed Type Housing

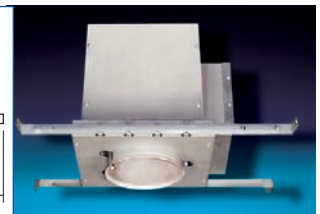
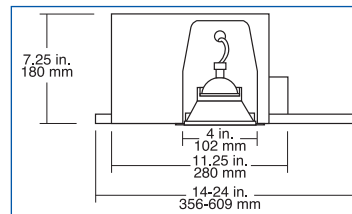
EL-GRHR03

Description: New construction housing
 Dimensions: 5.6" x 14.24"



EL-GRHR06

Description: Insulated ceilings housing
 Dimensions: 7.25" x 14.24"



How To Order Trim (example)

EFR8R	-BK	(MA)
Series	Color	Lamp Wattage
	-WH=White	(MA)=20 watts/12 Volts
	-CH=Chrome	(MB)=35 watts/12 Volts
	-BK=Black	(MC)=50 watts/12 Volts
	-PB=Polished Brass	(MK)=12 watts/12 Volts
	-BN=Brushed Nickel	(MJ)=10 watts/6 Volts

How To Order Housing (example)

EL-GRHR03	New Construction
EL-GRHR06	Insulated Ceilings

Remote Fixtures Surface Mounted Series

Furnished complete with lamps as specified in the parenthesis. For alternate lamp selection, see lamp data sheet.

Lamp Series Selection Chart

I = High intensity tungsten (HIT) double contact bayonet base	X = Sealed beam halogen*
U = Sealed beam tungsten	Z = High intensity incandescent wedge base
H = BI-PIN halogen*	M = MR16 lamps*

*Available at additional cost

EF14

Description:
Rectangular fixture with diffused lens polycarb

Color:
White baked enamel (specify other)

Mounting:
Surface (wall or ceiling)

Dimensions:
8-1/4" X 4-1/2" X 3" deep

Lamps:
Series: I (See Lamps Data Chart)

To Order:
6 volt-EF14(IA)-9 watts
12 volt-EF14(IE)-9 watts
24 volt-EF14(II)-9 watts



EF9 / EF9D

Description:
Single and double compact adjustable decorative lighting head - UL Listed thermoplastic

Color:
Off-white (WT) (black optional) (BK)

Mounting:
Surface (wall or ceiling) direct to 4" octagonal or single-gang box

Lamps:
Series: Z or H (See Lamp Data Chart)

To Order:
EF9: 6 volt-EF9(ZD)-9 watts
12 volt-EF9(ZF)-9 watts
24 volt-EF9(ZN)-9 watts
EF9D: 6 volt-EF9D(ZD)-9 watts*
12 volt-EF9D(ZF)-9 watts*
24 volt-EF9D(ZN)-9 watts*

*Wattages doubles for "D" 2-lamp version



EF16

Description:
Ceiling or wall mounted par 36 - adjustable in two planes to 45°

Color:
Off-white baked enamel (specify other)

Mounting:
Surface; three (3) 1/2" conduit knockouts provided

Dimensions:
8-1/2" X 3-1/2" deep

Lamps:
Series: H, I, U, X or Z (See Lamp Data Chart)

To Order:
6 volt-EF16(IA)-9 watts
12 volt-EF16(IE)-9 watts
24 volt-EF16(II)-9 watts ("I" HIT lamp only)



EF10 / EF10D

Description:
Single and double MR16 indoor lighting head with fully adjustable swivel - all thermoplastic construction

Color:
Off-white (WT)(black optional) (BK)

Mounting:
Direct to 4" octagonal electrical box

Lamps:
MR16 (Series M)

To Order:
EF10: 6 volt-EF10(MI)-6 watts
6 volt-EF10(MJ)-10 watts
12 volt-EF10(MK)-12 watts
12 volt-EF10(MG)-20 watts
EF10D: 6 volt-EF10(MI)-6 watts*
6 volt-EF10(MJ)-10 watts*
12 volt-EF10(MK)-12 watts*
12 volt-EF10(MG)-20 watts*

*Wattages doubles for "D" 2-lamp version



EF18 / EF18D

Description:
Single and double adjustable decorative lighting head - all thermoplastic construction

Color:
Off-white color (WT) (black optional) (BK)

Mounting:
Direct to 4" octagonal or single-gang box

Lamps:
Series: H, I, U, X or Z (See Lamp Data Chart)

To Order:
EF18: 6 volt-EF18(ZD)-9 watts
12 volt-EF18(ZF)-9 watts
24 volt-EF18(ZN)-9 watts
EF18D: 6 volt-EF18D(ZD)-9 watts*
12 volt-EF18D(ZF)-9 watts*
24 volt-EF18D(ZN)-9 watts*

*Wattages doubles for "D" 2-lamp version



Surface Mounted Series *Remote Fixtures*

EF23 / EF23D



Description:

Single adjustable decorative lighting head - all thermoplastic construction

Color:

Off-white (WT), black (BK)

Mounting:

Direct to 4" octagonal or single-gang box round mounting canopy standard

Lamps:

Series: H or Z

(H = 6, 8 and 12 watt lamps only)

(Z = 5.4, 9 and 12 watt lamps only)

To Order:

EF23: 6 volt-EF23(ZP)-5.4 watts

6 volt-EF23(ZD)-9 watts

12 volt-EF23(ZF)-9 watts

12 volt-EF23(ZG)-12 watts

EF23D: 6 volt-EF23D(ZP)-5.4 watts*

6 volt-EF23D(ZD)-9 watts*

12 volt-EF23D(ZF)-9 watts*

12 volt-EF23D(ZG)-12 watts*

*Wattage doubles for "D" 2-lamp version



EF28 / EF28D



Description:

Single or double metal housing head with fully adjustable swivel

Color:

Head: chrome finish (off-white optional)

Mounting:

EF28: Surface; 1 MPC - 1 plate supplied

EF28D: Surface; 3 MPC - 2 plate supplied

Dimensions:

EF28: Mounting plate 2-1/2" X 4-1/4"

EF28D: Mounting plate 6-7/16" X 4-1/2"

Lamps:

Series: H, I, U, X or Z

(See Lamp Series Chart)

To Order:

EF28: 6 volt-EF28(IA)-6 watts

12 volt-EF28(IE)-9 watts

24 volt-EF28(II)-9 watts

EF28D: 6 volt-EF28D(IA)-6 watts*

12 volt-EF28D(IE)-9 watts*

24 volt-EF28D(II)-9 watts*

*Wattage doubles for "D" 2-lamp version



EF24



Description:

Decorative square thermoplastic light prismatic diffusing lens - metal reflector

Color:

Front trim: off-white

Back box:

black

Mounting:

Surface (wall or ceiling).

For semi-recessed mounting, order EF24R, semi-recessed deep mounting box included (8-1/2" X 8-1/2" X 1-3/4" deep)

Dimensions:

9" X 9" X 4" deep

Lamps:

Series: H, I, or Z (See Lamp Series Chart)

To Order:

EF24: 6 volt-EF24(IA)-6 watts*

12 volt-EF24(IE)-8 watts*

24 volt-EF24(II)-9 watts* ("I" HIT lamp only)

Note: Specify two (2) lamps

*Wattage doubles for 2-lamp version



EF32 / EF32D



Description:

Single miniature 3" diameter X 4-1/4" fully adjustable aluminum cylinder complete with matching round mounting plate

Color:

Off-white baked enamel finish standard, black (BK)

Mounting:

Direct to 4" octagonal box

Lamps:

"H" BI-PIN halogen lamp (6 or 12 VDC only)

To Order:

EF32: 6 volt-EF32(HA)-6 watts

12 volt-EF32(HF)-8 watts

EF32D: 6 volt-EF32D(HA)-6 watts*

12 volt-EF32D(HF)-8 watts*

*Wattage doubles for "D" 2-lamp version



Remote Fixtures Recessed Mounted Series

EF13



Description:
Rectangular fixture with diffused lens polycarbonate

Color:
White baked enamel (specify other)

Mounting:
Recessed (wall or ceiling)

Dimensions:
Trim Plate - 8-1/4" X 4-1/2"
Back Box - 6-3/8" X 3" X 2-5/8" deep

Lamps:
Series: I (See Lamp Series Chart)

To Order:
6 volt-EF13(IA)-9 watts
12 volt-EF13(IE)-9 watts
24 volt-EF13(II)-9 watts



EF20

Description:
Miniature eyeball fixture; vertical angle adjustable 42P, horizontal rotation 358P

Color:
White baked enamel

Mounting:
Recessed (wall or ceiling)

Dimensions:
Trim ring - 4-3/4" diameter
Back box - 4" X 4" deep
Plaster ring - 7" square

Lamps:
Series: I (See Lamp Series Chart)

To Order:
6 volt-EF20(IA)-9 watts
12 volt-EF20(IE)-9 watts
24 volt-EF20(II)-9 watts ("I" HIT lamp only)



EF15



Description:
Recessed gimbal ring fixture par 36 - adjustable in two planes to 45P

Color:
Off-white thermoplastic

Mounting:
Recessed (wall or ceiling)

Dimensions:
Trim ring - 8-1/2" diameter
Back box - 5-3/4" X 4-3/4" deep
Plaster ring - 9" square (furnished standard)

Lamps:
Series: H, I, U, X or Z (See Lamp Series Chart)

To Order:
6 volt-EF15(IA)-9 watts
12 volt-EF15(IE)-9 watts
24 volt-EF15(II)-9 watts ("I" HIT lamp only)



EF21R

Description:
Fully recessed metal decorator square - prismatic diffusing lens - metal reflector

Color:
Off-white baked enamel

Mounting:
Recessed (wall or ceiling)

Dimensions:
Trim plate - 10-5/8" X 10-5/8"
Back box - 8-3/4" X 8-3/4" X 3-1/4" deep

Lamps:
Series: H, I or Z (See Lamp Series Chart)

To Order:
6 volt-EF21R(HA)-6 watts*
12 volt-EF21R(HF)-8 watts*
24 volt-EF21R(II)-9 watts* ("I" HIT lamp only)

Note: Specify two (2) lamps

**Wattage doubles for 2-lamp version*



EF17

Description:
Recessed adjustable eyeball par 36

Color:
Brushed aluminum (specify others)

Mounting:
Recessed (wall or ceiling)

Dimensions:
Trim ring - 8-3/4" diameter
Back box - 6-3/4" X 3-1/2" deep

Lamps:
Series: H, I, U, X or Z (See Lamp Series Chart)

To Order:
6 volt-EF17(IA)-9 watts
12 volt-EF17(IE)-9 watts
24 volt-EF17(II)-9 watts ("I" HIT lamp only)



EF35



Description:
Gasketed, fully recessed, with fresnel lens; suitable for damp location

Color:
Off-White

Mounting:
Ceiling fully recessed

Dimensions:
7-1/4" deep 6-7/8" diameter ceiling opening

Lamps:
Series: H, I or Z (See Lamp Series Chart, no Seal Beam)

To Order:
6 volt-EF35(IA)-9 watts
12 volt-EF35(IE)-9 watts
24 volt-EF35(II)-9 watts



Weatherproof Series *Harsh Environment Remote Fixtures*

EF11



Description:

Weather resistant adjustable head complete with gasketed aluminum canopy

Color:

Black (BK) (off-white optional) (WT)

Mounting:

Direct to 4" octagonal electrical box

Lamps:

Series: H, I, U, X or Z (See Lamp Series Chart)

To Order:

6 volt-EF11(ZD)-9 watts
12 volt-EF11(ZF)-9 watts
24 volt-EF11(ZN)-9 watts



EF11X



Description:

Class I Division 2 - Groups A, B, C, D
Single lighting head with fully adjustable swivel - with gasketed aluminum canopy and junction box

Color:

Grey

Mounting:

Standard with round plate for mounting directly to 4" outlet box

Lamps:

Series: PAR36 sealed Beam (6 or 12Vdc)

To Order:

6 volt-EF11X- 8W (XB) or 12W (XD)
12 volt-EF11X-8W (XF) or 12W (XG)



EF11D



Description:

Twin weather resistant adjustable head complete with gasketed aluminum canopy

Color:

Black (BK) (off-white optional) (WT)

Mounting:

Direct to 4" octagonal electrical box

Lamps:

Series: H, I, U, X or Z (See Lamp Series Chart)

To Order:

6 volt-EF11D(ZD)-9 watts*
12 volt-EF11D(ZF)-9 watts*
24 volt-EF11D(ZN)-9 watts*

*Wattage doubles for "D" 2-lamp version



EF11DX



Description:

Class I Division 2
Double lighting head with fully adjustable swivel - with gasketed aluminum canopy and junction box

Color:

Grey

Mounting:

Standard with round plate for mounting directly to 4" outlet box

Lamps:

Series: PAR36 sealed Beam (6 or 12Vdc)

To Order:

6 volt-EF11DX-8W (XB) or 12W (XD)
12 volt-EF11DX-8W (XF) or 12W (XG)



EF39



NEMA-4X

Description:

Nema 4X Rated, single head complete with gasketed cast aluminum backplate and clear UV impact resistant case.

Color:

White (WH) (standard), Black (-BK), Gray (-GY)

Mounting:

Direct to 4" octagonal electric box

Lamps:

Series: MR16 (M Series)

To Order:

6 volt-EF39(MI)-6 watts
6 volt-EF39(MJ)-10 watts
12 volt-EF39(MK)-12 watts
12 volt-EF39(MW)-20 watts
24 volt-EF39(MS)-12 watts
24 volt-EF39(MD)-20 watts
12 volt-EF39(L)-5 watts



EF39D



NEMA-4X

Description:

Nema 4X Rated, double head complete with gasketed cast aluminum backplate and clear UV impact resistant case.

Color:

White (WH) (standard), Black (-BK), Gray (-GY)

Mounting:

Direct to 4" octagonal electrical box

Lamps:

Series: MR16 (M Series)

To Order:

6 volt-EF39D(MI)-6 watts*
6 volt-EF39D(MJ)-10 watts*
12 volt-EF39D(MK)-12 watts*
12 volt-EF39D(MW)-20 watts*
24 volt-EF39D(MS)-12 watts*
24 volt-EF39D(MD)-20 watts*
12 volt-EF39D(L)-5 watts*

*Wattage doubles for "D" 2-lamp version



PATENT PENDING

PATENT PENDING



Accessories and General Information

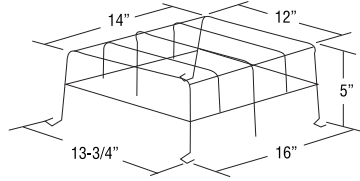
Wire Guards	94-95
Unit Accessories	96
Mounting Plates	97
Lamp Data	98-99
Wire Size Guide	100
National Electrical Code	101-102
Life Safety Code	103-105
Limited Warranty	106

Wire Guards

Catalog Number WG1-E

Application

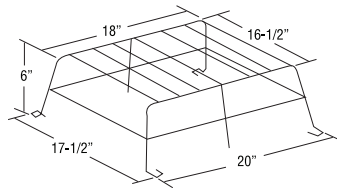
- JS Series (small cabinet) and ME Series with top mounted heads
- PS Series (surface or semi-recessed)
- EF24 or EF24R remote lighting fixture



Catalog Number WG2-E

Application

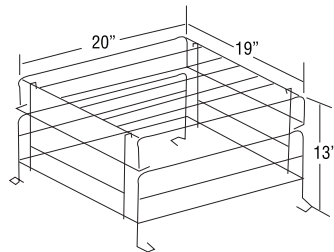
- JS Series (large cabinet)
- All A cabinets
- Prestige DX Series LED (wall mount)
- X10 Self-Powered Series Incandescent
- Preceptor Series (wall mounted)



Catalog Number WG3-E

Application

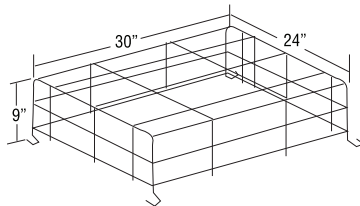
- IL Series
- All B and C cabinets



Catalog Number WG4-E

Application

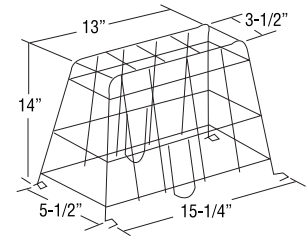
- All D cabinets
- KS Series
- ME Series with end mounted EF 18 heads



Catalog Number WG5-E

Application

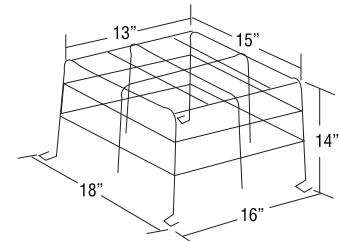
- X10 or X30 Series LED, Incandescent (end or ceiling mounted) AC and AC/DC or Self-Powered exit with no mounted heads
- ECL & ECLXN Series LED (end or ceiling mounted) AC and AC/DC or Self-Powered
- Preceptor Series LED (AC and AC/DC or Self-Powered) (end or ceiling mounted)
- Prestige DX Series LED (ceiling mounted) AC and AC/DC or Self-Powered



Catalog Number WG6-E

Application

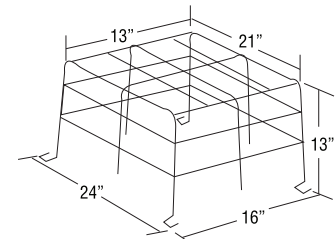
- Single EF22 head
- X10 or X30 Series LED, Incandescent (wall mounted) Self-Powered with front mounted EF9 head(s)



Catalog Number WG7-E

Application

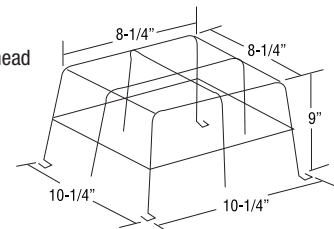
- EF22D heads
- RS Series with cylinder EF32 heads



Catalog Number WG8-E

Application

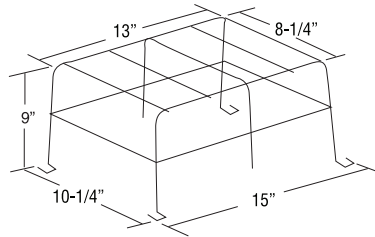
- Single remote EF9, EF11, EF16, EF18, EF28, or EF32 lighting head



Catalog Number WG9-E

Application

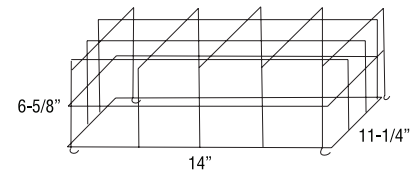
- Double or triple remote EF9, EF11, EF18, EF28 or EF32 lighting heads
- RS Series with EF9 or EF18 heads
- ECS-2 Series



Catalog Number WG13-E

Application

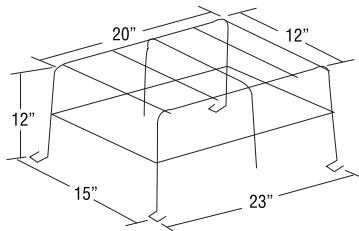
- PRO-2 Series
- Preceptor Series Self-Powered (wall mount)



Catalog Number WG10-E

Application

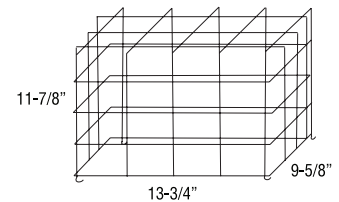
- JS or ME Series with front mounted heads
- ME Series with end mounted EF9 heads



Catalog Number WG14-E

Application

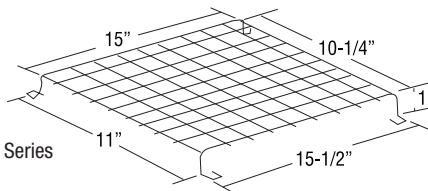
- X10 or X30 Series LED, Incandescent (ceiling mounted) AC and AC/DC or Self-Powered exit with no mounted heads
- ECL & ECLXN Series LED (ceiling mounted) AC and AC/DC or Self-Powered
- Preceptor Series LED (ceiling mounted) AC and AC/DC or Self-Powered



Catalog Number WG11-E

Application

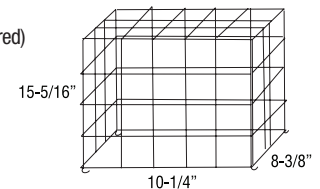
- Fully recessed PS Series
- GS Series
- EF15, EF20, EF21R, EF35 lighting fixtures
- Fully recessed Preceptor Series



Catalog Number WG15-E

Application

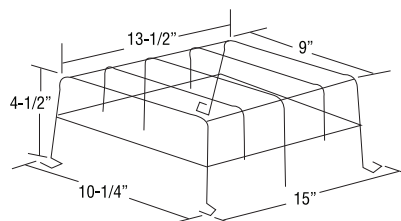
- X10 Series LED (AC and AC/DC or Self-Powered) Incandescent (AC and AC/DC) (wall mounted)
- ECL & ECLXN Series LED (end mounted) AC and AC/DC or Self-Powered
- Preceptor Series LED (end mounted) AC and AC/DC or Self-Powered
- Prestige DX Series LED (end mounted) AC and AC/DC or Self-Powered



Catalog Number WG12-E

Application

- X10 Series LED (AC and AC/DC or Self-Powered) Incandescent (AC and AC/DC) (wall mount)
- ECL & ECLXN Series LED AC and AC/DC or Self-Powered (wall mount)
- Preceptor Series LED (AC and AC/DC or Self-Powered) (wall mount)
- Prestige DX Series LED AC and AC/DC or Self-Powered (wall mount)
- Remote EF13, EF14, or EF17 fixtures

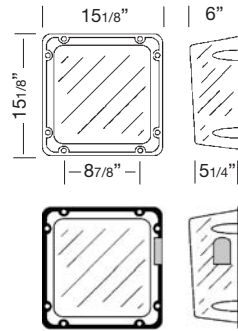


Unit Accessories

Catalog Number VRS or VRS-4X (NEMA-4X)

Application

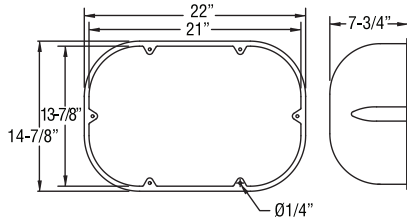
- ME Series with top mounted heads
- PS Series all mountings
- X10 or X30 Series LED, Incandescent (wall mounted) AC and AC/DC or Self-Powered exit with no mounted heads
- ECL & ECLXN Series LED (wall mounted) AC and AC/DC or Self-Powered
- Preceptor Series LED, Incandescent (wall mounted) AC and AC/DC



Catalog Number VRS-BB or VRSBB-4X (NEMA-4X)

Application

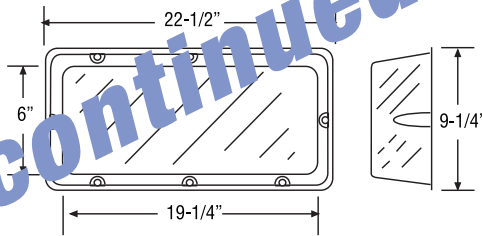
- JS Series (small cabinet) top or front mounted heads
- ME Series with top or side mounted heads
- ECC & ECM Series (small cabinet)



Catalog Number VRS-EC

Application

- EC-2 & ECX-2 Series

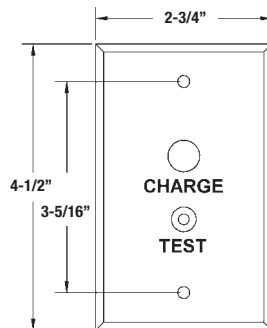


Remote Test Switch

Make testing your ceiling mounted equipment easier with the remote test switch. Compatible with 120 or 277 VAC circuits, the remote test switch will interrupt the line voltage to your equipment by means of a momentary push button switch. AC on/Charge status indicator lamp assures that power is going to your emergency lighting.

How To Order

- Metal faceplate, chrome.....RTS
- Plastic Faceplate, off white.....RTS-1

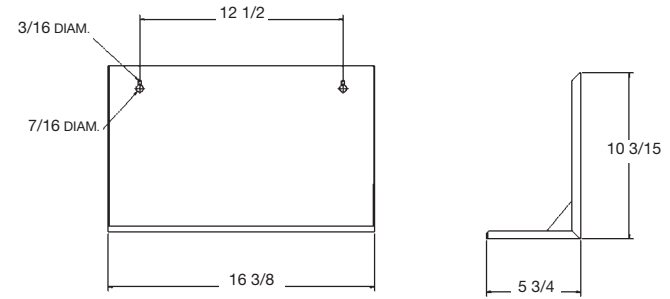


MP3, Mounting Platform

Constructed of 18 gauge. steel, the MP3 mounting platform will accommodate all our unit equipment in our 'B' cabinet.

How To Order

- Mounting platformMP3
- Mounting platform, grayMP3-GY



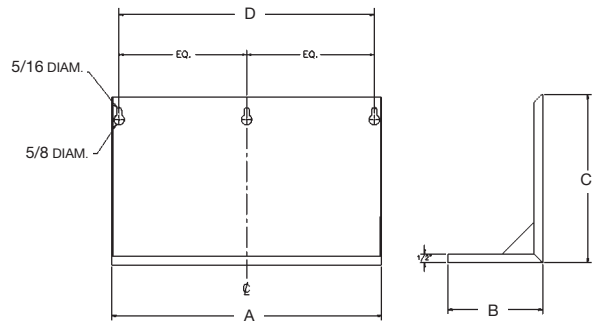
MP6, MP12, MP24 Mounting Platform

Constructed of 18 gauge. Steel, the MP6, MP12, and MP24 mounting platform will accommodate our unit equipment in our 'C', 'D', and 'E' cabinets respectively.

How To Order

- Mounting platform (whist).....MP6
 - Mounting platform (whist).....MP12
 - Mounting platform (whist).....MP24
- Optional colors available, contact factory

Part #	A	B	C	D
MP6	17"	7.75"	12.25"	16"
MP12	27.5"	7.75"	12.25"	16"
MP24	27.5"	11.63"	12.25"	16"



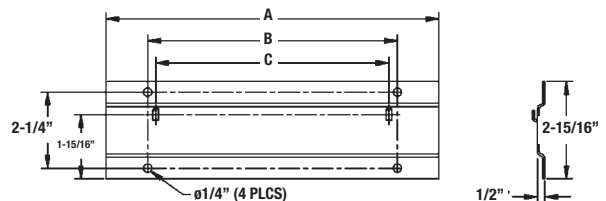
B1 and B12 Mounting Brackets

Constructed of 16 gauge. steel, the B1 and B2 mounting bracket will accommodate our unit equipment in our 'A' and 'B' cabinets respectively.

How To Order

- Mounting bracket (whist)B1
- Mounting bracket (whist)B2

Part #	A	B	C
B1	10"	7 1/2"	7"
B2	14 1/4"	12 5/8"	11 3/4"



Mounting Plates

Specify mounting plate designation as a suffix to fixture type model number. Plates ordered separately, specify plate designation and fixture type.

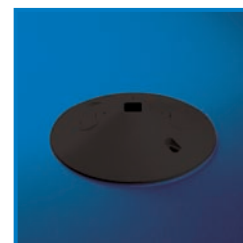
230.1238-E & 230.1239-E

- Single, Double or Triple Round
 - Thermoplastic Construction
 - Off-white or black finish only
 - Mount direct to 4" octagonal box
- Dimensions:** 5" diameter - slotted mounting holes 3 to 3 9/16" mounting center
Standard: EF18, EF18D; and EF9, EF9D

Off-White - 230.1238-E



Black - 230.1239-E



430.0765-E & 430.0766-E

- Single or double round
 - Aluminum construction
 - Matte white baked enamel finish
 - Black finish optional
 - Mount direct to 4" octagonal box
- Dimensions:** 5 1/4" diameter
 3 7/16" mounting center
Standard: EF32 and EF32D

Off-White Single - 430.0765-E



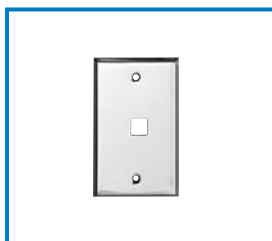
Off-White Double - 430.0766-E



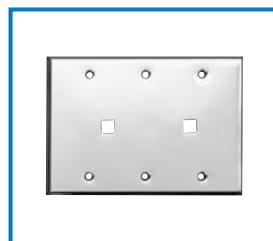
450.0129-E & 450.0397-E & 450.0398-E

- Single, double or triple rectangular
 - Single, triple or 4-gang steel construction
 - Chrome plated finish only
 - Mount direct to standard outlet box
- Dimensions:** single - 2 3/4" X 4 1/2" (for 1 fixture)
 3-gang - 6 7/16" X 4 1/2" (for 2 fixture)
 4-gang - 8 3/8" X 4 1/2" (for 2 or 3 fixture)
 3 5/16" mounting centers all types
Standard: EF28, EF28D; EF18T and EF28T

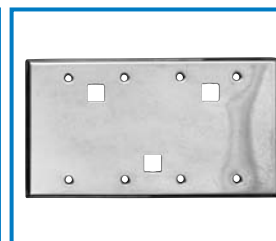
450.0129-E - No Square Hole
***450.1151-E** - 7/16" Square Hole
450.0194-E - 1/2" Square Hole



450.0397-E - No Square Hole
***450.1152-E** - 7/16" Square Hole
450.1153-E - 1/2" Square Hole



450.0398-E - No Square Hole
***450.1154-E** - 7/16" Square Hole
450.1155-E - 1/2" Square Hole



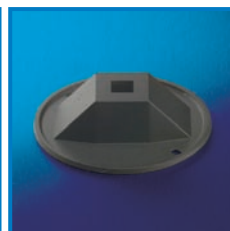
330.7583-E & 330.7584-E

- Single or double round
 - Die cast aluminum construction
 - Gasketed weatherproof
 - Off-white or black powder paint finish only
 - Mount direct to 4" octagonal box
- Dimensions:** 4 1/8" diameter
 3 9/16" mounting center
Standard: EF11 and EF11D

Off-White Single 330.7583-E



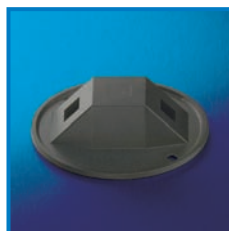
Black Single 330.7577-E



Off-White Double 330.7584-E



Black Double 330.7578-E



12804-E & 12805-E

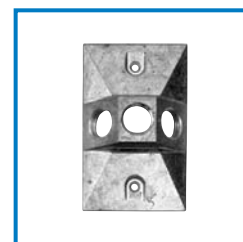
- Single or double rectangular
 - Die cast aluminum construction
 - Gasketed weatherproof
 - Silver gray enamel finish only
 - Mount direct to standard outlet box
- Dimensions:** 4 5/8" X 2 7/8"
 3 1/4" mounting center
Standard: Non standard mounting plate

Gasket - 245.0100-E

12804-E



12805-E



Lamp Data

General Information

All Emergi-Lite Lighting Fixtures are furnished complete with lamps; however, **All fixtures and unit model numbers must include a lamp designation.** Unless otherwise noted on the lighting fixture data sheet, the normal lamp furnished with each lighting fixture is a 9 watt High Intensity Incandescent lamp of the designated voltage.

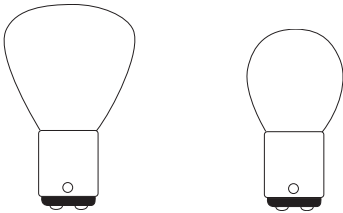
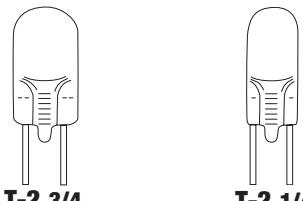
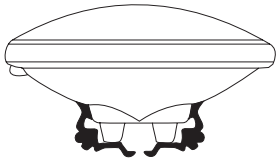
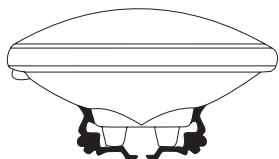
Example:

Fixtures **Battery Units with 2 lighting heads**
 EF18 (ZD) LSM 110-2ZD (6V 9W)
 EF18 (ZF) 12LSM 110-2ZF (12V 9W)
 EF18 (ZN) 24LSM 110-2ZN (24V 9W)

When an alternate lamp is required, refer to the lamp selection charts below, select the lamp type, the voltage and wattage required and add the symbol designation to the catalog number. **Not all lighting fixtures and lamp types are compatible always check individual lighting fixture data sheets.**

Example:

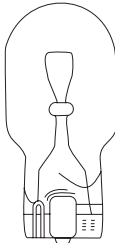
A Normally Furnished Lamp: EF18 (ZD) (6V 9W Wedge Base Incandescent)
 Lighting Head Requiring different Lamp: (6V 25W Sealed Beam Lamp)
 Change Catalog Number to: EF18 (UC)

Lamp Type	Item P/N	Catalog Suffix	Voltage	Watts	Lumens	Lamp #	Bulb Type
High Intensity Tungsten (HIT) Lamps							
 <p>RP-11 S-8</p> <p>Double Contact Bayonet Base</p>	570.0010	IA	6	9	175	135	S-8
	570.0020	IM	6	13	188	88	S-8
	570.0037	IB	6	18	360	1130	S-8
	570.0038	IC	6	25	500	1134	RP-11
	570.0011	IE	12	9	175	138	S-8
	570.0022	IN	12	13	189	94	S-8
	570.0030	IF	12	18	360	139	S-8
	570.0031	IG	12	25	402	1076	S-8
	570.0058	II	24	9	75	364	C-2F
	570.0040	IJ	24	18	360	142	S-8
	570.0061	IK	24	25	500	1638	S-8
BI-PIN Halogen Lamps							
 <p>T-2 3/4 T-2 1/4</p> <p>Bi-Pin Halogen Lamps*</p>	580.0012	HA	6	6	113	784	T-21/4
	580.0013	HB	6	8	163	785	T-21/4
	580.0017	HC	6	10	200	787	T-21/4
	580.0011	HD	6	12	240	786	T-21/4
	580.0022	HE	6	20	402	788	T-21/4
	580.0014	HF	12	8	163	774	T-21/4
	580.0015	HG	12	12	276	783	T-21/4
	580.0016	HH	12	14	302	789	T-23/4
	580.0027	HI	12	20	314	782	T-23/4
	PAR 36 Sealed Beam Lamps						
 <p>PAR 36</p> <p>Sealed Beam Halogen Lamps*</p>	550.0022	XA	6	6	400	H7556	PAR 36
	550.0036	XB	6	8	550	H7551	PAR 36
	550.0037	XC	6	10	650	H7552	PAR 36
	550.0019	XD	6	12	850	H7553	PAR 36
	550.0021	XE	6	20	1400	H7554	PAR 36
	550.0024	XF	12	8	550	H7555	PAR 36
	550.0025	XG	12	12	850	H7557	PAR 36
	550.0047	XH	12	37	70.000	H7616	PAR 36
	550.0012	XI	12	50	2.000	H7614	PAR 36
	PAR 36 Sealed Beam Incandescent Lamps						
 <p>PAR 36</p> <p>Sealed Beam Incandescent Lamps</p>	550.0018	UA	6	8	400	7613	PAR 36
	550.0030	UI	6	12	1100	4042	PAR 36
	550.0016	UB	6	18	1500	4014	PAR 36
	550.0017	UC	6	25	800	4510	PAR 36
	550.0035	UD	6	30	5500	4515	PAR 36
	550.0026	UE	12	12	1110	4044	PAR 36
	550.0027	UF	12	18	1500	4414	PAR 36
	550.0023	UG	12	25	400	4446	PAR 36
	550.0034	UH	12	30	35.000	4416	PAR 36

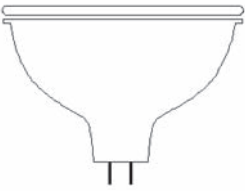
*Available at additional cost.

In Stock	Special Order
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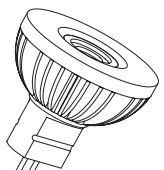
High Intensity Incandescent Lamps

Lamp Type	Item P/N	Catalog Suffix	Voltage	Watts	Lumens	Lamp #	Bulb Type
 <p>Wedge Base</p> <p style="text-align: right;">T-5</p>	570.0012	ZP	6	5.4	72	939	T-5
	570.0026	ZL	6	7.2	100	927	T-5
	570.0016	ZD	6	9	150	908	T-5
	570.0025	ZF	12	9	140	915	T-5
	570.0028	ZG	12	12	150	912	T-5
	570.0029	ZH	12	18	260	921	T-5
	570.0045	ZN	24	9	140	EMS2209W	T-5
	570.0046	ZO	24	18	230	EMS2218W	T-5

MR16 Halogen Lamps

Lamp Type	Item P/N	Catalog Suffix	Voltage	Watts	Center Beam Candle Power (C.P.)
 <p>Halogen</p>	580.0072	MH	6	5	110
	580.0074	MI	6	6	130
	580.0079	MJ	6	10	250
	580.0080	MK	12	12	300
	580.0075	MA	12	20	600
	580.0068	MW	12	20-IR	1000
	580.0083	MB	12	35	1300
	580.0076	MC	12	50	2100
	580.0077	MD	24	20	600
	580.0070	MS	24	12	278
	580.0078	MF	24	50	1800
	580.0064	MG	12	20	600

LED Lamp

Lamp Type	Item P/N	Catalog Suffix	Voltage	Watts	Center Beam Candle Power (C.P.)
 <p>LED</p> <p>MR16 Shape</p>	580.0063	L	12	5	205

* 3W white LED and 2W to drive engine

Explosion-Proof Incandescent Lamps

Item P/N	Catalog Suffix	Voltage	Watts	Lumens	Lamp #
580.0086	XX6	6	15	225	JC-6V15W
570.0071	XX12	12	25	378	25A-19
570.0118	XX24	24	25	345	25A-19

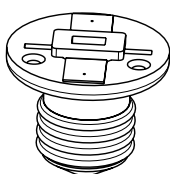
120 Volt AC Exit Lamps

Lamp Type	Catalog	Watts	Lamp #	Base
Incandescent	570.0013	15	15T6145	Candelabra Screw Base
Incandescent	570.0024	20	20T61/2	Intermediate Screw Base
Incandescent	570.0035	15	15T6	Intermediate Screw Base
Fluorescent	595.0010	7	PL7-T4	G23

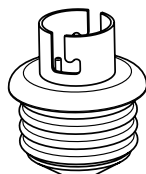
MSA Incandescent Lamp Adapter

For HIT, DCBB or Bi-Pin Halogen Lamps

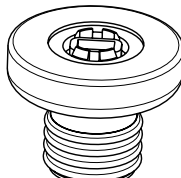
DC lamp plus adapter for medium Edison screw base socket. This device converts any incandescent fixture into an emergency fixture.



MSA Bi-Pin



MSA Double Contact



MSA Wedge Base

How to Order (example)

MSA - HB

Product Code

Lamp Symbol

Note:

Lumen figures based on information supplied by lamp manufacturers, Lamp drawings shown are for shape comparison only, not actual size.

Wire Size Guide

Determining Wire Size

The following information is provided to assist in designing proper emergency lighting systems effectively and economically by using the smallest permissible wire size for load circuits. When remote lighting fixtures and/or exit signs are connected to emergency lighting units, circuit runs must be of sufficient size to maintain a proper operating voltage to all lamps. The National Electrical Code limits voltage to drop to a maximum of 5% of nominal. The table below gives the maximum length or wire run based on systems voltage, wire gauge and total wattage on the run. To determine the maximum length of a wire run not listed, divide the value of the load in watts into the constant listed at the bottom of each row. Example, the maximum wire run for #10 wire on a 12 volt system, with a 54 watt load, is $3397 \div 54$, or, 62 feet.

Conversely, to determine the maximum load on a run of known length, divide the length into the constant. Example, a 36 foot run of #12 wire on a 6 volt systems can be loaded to, $534 \div 36$, or 14 watts; on #10 wire, 23 watts.

Total watts on wire run	WIRING DISTANCE IN FEET (Maximum Voltage Drop 5%)												
	6 volt wire size				12 volt wire size					24 volt wire size			
	#12	#10	#8	#6	#12	#10	#8	#6	#4	#12	#10	#8	#6
6	89	141	225	357	356	566	900	1431	+	1425	+	+	+
8	66	106	168	268	267	424	675	1073	1707	1068	1698	+	+
9	59	94	150	238	237	377	600	954	1517	949	1509	+	+
10	53	84	135	214	213	339	540	859	1366	854	1358	+	+
12	44	70	112	178	178	283	450	715	1138	712	1132	1801	+
16	33	53	84	134	133	212	337	536	853	534	849	1350	+
18	29	47	75	119	118	188	300	477	758	474	754	1200	1909
24	22	35	56	89	89	141	225	357	569	356	566	900	1431
25	21	33	54	85	85	135	216	343	546	341	543	864	1374
27	19	31	50	79	79	125	200	318	505	316	503	800	1272
30	17	28	45	71	71	113	180	286	455	284	452	720	1145
36	14	23	37	59	59	94	150	238	379	237	377	600	954
42	12	20	32	51	50	80	128	204	325	203	323	514	818
45	11	18	30	47	47	75	120	190	303	189	301	480	763
48	11	17	28	44	44	70	112	178	284	178	283	450	715
50	10	16	27	42	42	67	108	171	273	170	271	432	687
75	7	11	18	28	28	45	72	114	182	113	181	288	458
100	5	8	13	21	21	33	54	85	136	85	135	216	343
150	—	5	9	14	14	22	36	57	91	56	90	144	229
200	—	—	6	10	10	16	27	42	68	42	67	108	171
250	—	—	5	8	8	13	21	34	54	34	54	86	137
300	—	—	—	7	7	11	18	28	45	28	45	72	114
400	—	—	—	5	5	8	13	21	34	21	33	54	85
500	—	—	—	—	—	6	10	17	27	17	27	43	68
Constant	534	849	1350	2148	2137	3397	5403	8590	13660	8548	13588	21613	34363

Longer Wire Runs

The wiring distances give the maximum length of a battery circuit, assuming that the entire load is concentrated at the end of the circuit. If loads are uniformly spaced along the circuit path (equal watts, equal distances), the lengths in the table may be increased, based on number of fixtures on a given circuit, by means of the chart and formula below.

Number of Fixtures	2	3	4	5	6	N
Multiply By Feet	1.33	1.5	1.6	1.67	1.71	$2n/(n+1)$

For example, a 36 foot long, 6 volt circuit has (3) 9 watt heads spaced 12 feet apart. According to the wire run table, # 8 wire must be used (at 50 feet for a 5% voltage drop.) but, by multiplying the 31 feet for #10 wire by 1.5, a 46 1/2 foot wire run is acceptable, so #10 wire may be used and still meet the 5% voltage drop limitation.

Note: According to the National Electrical Code, Article 720-Y, the smallest permissible wire size for systems under 50 volts is the #12 wire gauge.

ARTICLE 700—EMERGENCY SYSTEMS

A. General

700-1. Scope. The provisions of this article apply to the electrical safety of the installation, operation, and maintenance of emergency systems consisting of circuits and equipment intended to supply, distribute, and control electricity for illumination or power, or both, to required facilities when the normal electrical supply or system is interrupted.

Emergency systems are those systems legally required and classed as emergency by municipal, state, federal, or other codes, or by any governmental agency having jurisdiction. These systems are intended to automatically supply illumination or power, or both, to designated areas and equipment in the event of failure of the normal supply or in the event of accident to elements of a system intended to supply, distribute and control power and illumination essential for safety to human life.

(FPN No. 1): For further information regarding wiring and installation of emergency systems in health care facilities, see Article 517.

(FPN No. 2): For further information regarding performance and maintenance of emergency systems in health care facilities, see Standard for Health Care Facilities, NFPA 99-1999.

(FPN No. 3): Emergency systems are generally installed in places of assembly where artificial illumination is required for safe exiting and for panic control in buildings subject to occupancy by large numbers of persons, such as hotels, theaters, sports arenas, health care facilities, and similar institutions. Emergency systems may also provide power for such functions as ventilation where essential to maintain life, fire detection and alarm systems, elevators, fire pumps, public safety communications systems, industrial processes where current interruption would produce serious life safety or health hazards, and similar functions.

(FPN No. 4): For specification of locations where emergency lighting is considered essential to life safety, see *Life Safety Code*, NFPA 101-2000.

(FPN No. 5): For further information regarding performance of emergency and standby power systems, see *Standard for Emergency and Standby Power Systems*, NFPA 110-1999.

700-2. Application of Other Articles. Except as modified by this article, all applicable articles of this Code shall apply.

700-3. Equipment Approval. All equipment shall be approved for use on emergency systems.

700-4. Tests and Maintenance.

(a) Conduct or Witness Test. The authority having jurisdiction shall conduct or witness a test of the complete system upon installation and periodically afterward.

(b) Tested Periodically. Systems shall be tested periodically on a schedule acceptable to the authority having jurisdiction to ensure the systems are maintained in proper operating condition.

(c) Battery Systems Maintenance. Where battery systems or unit equipment are involved, including batteries used for starting, control, or ignition in auxiliary engines, the authority having jurisdiction shall require periodic maintenance.

(d) Written Record. A written record shall be kept of such tests and maintenance.

(e) Testing Under Load. Means for testing all emergency lighting and power systems during maximum anticipated load conditions shall be provided.

700-5. Capacity.

(a) Capacity and Rating. An emergency system shall have adequate capacity and rating for all loads to be operated simultaneously. The emergency system equipment shall be suitable for the maximum available fault current at its terminals.

(b) Selective Load Pickup, Load Shedding, and Peak Load Shaving. The alternate power source shall be permitted to supply emergency, legally required standby, and optional standby system loads where the source has adequate capacity or where automatic selective load pickup and load shedding is provided as needed to ensure adequate power to (1) the emergency circuits; (2) the legally required standby circuits; and (3) the optional standby circuits, in that order of priority. The alternate power source shall be permitted to be used for peak load shaving, provided the above conditions are met.

Peak load shaving operation shall be permitted for satisfying the test requirement of Section 700-4(b), provided all other conditions of Section 700-4 are met.

A portable or temporary alternate source shall be available whenever the emergency generator is out of service for major maintenance or repair.

700-6. Transfer Equipment.

(a) General. Transfer equipment, including automatic transfer switches, shall be automatic and identified for emergency use and approved by the authority having jurisdiction. Transfer equipment shall be designed and installed to prevent the inadvertent interconnection of normal and emergency sources of supply in any operation of the transfer equipment. Transfer equipment and electric power production systems installed to permit operation in parallel with the normal source shall meet the requirements of article 705.

(b) Bypass Isolation Switches. Means shall be permitted to bypass and isolate the transfer equipment. Where bypass isolation switches are used, inadvertent parallel operation shall be avoided.

(c) Automatic transfer switches shall be electrically operated and mechanically held.

(d) Use. Transfer equipment shall supply only emergency loads.

700-7. Signals. Audible and visual signal devices shall be provided, where practicable, for the following purposes described in 700.7(A) through (D).

(a) Derangement. To indicate derangement of the emergency source.

(b) Carrying Load. To indicate that the battery is carrying load.

(c) Not Functioning. To indicate that the battery charger is not functioning.

(d) Ground Fault. To indicate a ground fault in solidly grounded wye emergency systems of more than 150 volts to ground and circuit protective devices rated 1000 amperes or more. The sensor for the ground-fault signal devices shall be located at, or ahead of, the main system disconnecting means for the emergency source, and the maximum setting of the signal devices shall be for a ground-fault current of 1200 amperes. Instructions on the course of action to be taken in event of indicated ground fault shall be located at or near the sensor location.

(FPN): For signals for generator sets, see *Standard for Emergency and Standby Power*

Systems, NFPA 110-1999.

700-8. Signs.

(a) Emergency Sources. A sign shall be placed at the service entrance equipment indicating type and location of on-site emergency power sources.

Exception: A sign shall not be required for individual unit equipment as specified in Section 700-12(e).

(b) Grounding. Where the grounded circuit conductor connected to the emergency source is connected to a grounding electrode conductor at a location remote from the emergency source, there shall be a sign at the grounding location that shall identify all emergency and normal sources connected at that location.

B. Circuit Wiring

700-9. Wiring, Emergency System.

(a) Identification. All boxes and enclosures (including transfer switches, generators, and power panels) for emergency circuits shall be permanently marked so they will be readily identified as a component of an emergency circuit or system.

(b) Wiring. Unless otherwise permitted in (1) through (4), wiring from emergency source or emergency source distribution overcurrent protection to emergency loads shall be kept entirely independent of all other wiring and equipment. Wiring of two or more emergency circuits supplied from the same source shall be permitted in the same raceway, cable, box, or cabinet.

(1) Wiring from the normal power source located in transfer equipment enclosures.

(2) Wiring supplied from two sources in exit or emergency luminaire's (lighting fixtures)

(3) Wiring from two sources in a common junction box, attached to exit or emergency luminaire's (lighting fixtures).

(4) Wiring within a common junction box attached to unit equipment, containing only the branch circuit supplying the unit equipment and the emergency circuit supplied by the unit equipment.

(c) Wiring Design and Location. Emergency wiring circuits shall be designed and located to minimize the hazards that might cause failure due to flooding, fire, icing, vandalism, and other adverse conditions.

(d) Fire Protection. Emergency systems shall meet the following additional requirements in assembly occupancies for not less than 1000 persons or in buildings above 75 ft (23 m) in height with any of the following occupancy classes: assembly, educational, residential, detention and correctional, business, and mercantile.

(1) Feeder-circuit wiring shall meet one of the following conditions:

(1) Be installed in spaces or areas that are fully protected by an approved automatic fire suppression system.

(2) Be listed electrical circuit protective system with a minimum 1-hour fire rating.

(3) Be protected by a listed thermal barrier system for electrical system components.

(4) Be protected by a fire-rated assembly listed to achieve a minimum fire of 1 hour.

(5) Be embedded in not less than 2 in. (50 mm) of concrete.

(6) Be a cable listed to maintain circuit integrity for not less than 1 hour when installed in accordance with the listing requirements.

(2) Feeder-Circuit Equipment. Equipment for feeder circuits (transfer switches, transformers, panel boards) shall be either located in spaces fully protected by approved automatic fire suppression systems (sprinklers, carbon dioxide systems, etc.) or in spaces with a 1-hour fire resistance rating.

FPN: For the definition of occupancy class, see Section 4.1 of *Life Safety Code*, NFPA 101-2000.

C. Sources of Power

700-12. General Requirements. Current supply shall be such that, in the event of failure of the normal supply to, or within, the building or group of buildings concerned, emergency lighting, emergency power, or both will be available within the time required for the application but not to exceed 10 seconds. The supply system for emergency purposes, in addition to the normal services to the building and meeting the general requirements of this section, shall be one or more of the types of systems described in 700.12(a) through (d) below. Unit equipment in accordance with Section 700.12(e) shall satisfy the applicable requirements of this article.

In selecting an emergency source of power, consideration shall be given to the occupancy and the type of service to be rendered, whether of minimum duration, as for evacuation of a theater, or longer duration, as for supplying emergency power and lighting due to an indefinite period of current failure from trouble either inside or outside the building.

Equipment shall be designed and located to minimize the hazards that might cause complete failure due to flooding, fires, icing, and vandalism.

Equipment for sources of power as described in Sections 700.12(a) through (d) where located within assembly occupancies for greater than 1000 persons or in buildings above 75 ft (23 m) in height with any of the following occupancy classes: assembly, educational, residential, detention and correctional, business, and mercantile, shall be installed either in spaces fully protected by approved automatic fire suppression systems (sprinklers, carbon dioxide systems, and so forth), or in spaces with a 1-hour fire rating.

FPN No. 1: For definition of occupancy class, see Section 4.1 of *Life Safety Code*, NFPA 101-2000.

FPN No. 2: Assignment of degree of reliability of the recognized emergency supply system depends on the careful evaluation of the variables at each particular installation.

(a) Storage Battery. Storage batteries used as source of power for emergency systems shall be of suitable rating and capacity to supply and maintain the total load for a period of 1 1/2 hours minimum, without the voltage applied to the load falling below 87 1/2 percent of normal.

Batteries, whether of the acid or alkali type, shall be designed and constructed to meet the requirements of emergency service and shall be compatible with the charger for that particular installation.

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For a sealed battery, the container shall not be required to be transparent. However, for the lead acid battery that requires water additions, transparent or translucent jars shall be furnished. Automotive-type batteries shall not be used.

An automatic battery charging means shall be provided.

(b) Generator Set.

(1) **Prime Mover-Driven.** For a generator set driven by a prime mover acceptable to the authority having jurisdiction and sized in accordance with Section 700-5. Means shall be provided for automatically starting the prime mover on failure of the normal service and for automatic transfer and operation of all required electrical circuits. A time-delay feature permitting a 15-minute setting shall be provided to avoid retransfer in case of short-time reestablishment of the normal source.

(2) **Internal Combustion as Prime Movers.** Where internal combustion engines are used as the prime mover an on-site fuel supply shall be provided with an on-premise fuel supply sufficient for not less than 2 hours full-demand operation of the system. Where power is needed for the operation of the fuel transfer pumps to deliver fuel to a generator set dry tank, this pump shall be connected to the emergency power system.

(3) **Dual Supplies.** Prime movers shall not be solely dependent upon a public utility gas system for their fuel supply or municipal water supply for their cooling systems. Means shall be provided for automatically transferring from one fuel supply to another where dual fuel supplies are used.

Exception: Where acceptable to the authority having jurisdiction, the use of other than on-site fuels shall be permitted where there is a low probability of a simultaneous failure of both the off-site fuel delivery system and power from the outside electrical utility company.

(4) Where a storage battery is used for control or signal power, or as the means of starting the prime mover, it shall be suitable for the purpose and shall be equipped with an automatic charging means independent of the generator set. Where the battery charger is required for the operation of the generator set, it shall be connected to the emergency system. Where power is required for the operation of dampers used to ventilate the generator set, the dampers shall be connected to the emergency system.

(5) **Auxiliary Power Supply.** Generator sets that require more than 10 seconds to develop power shall be permitted is an auxiliary power supply energizes the emergency system until the generator can pick up the load.

(6) **Outdoor Generator Sets.** Where an outdoor housed generator set is equipped with a readily accessible disconnecting means located within sight of the building or structure supplied, an additional disconnecting means shall not be required where ungrounded conductors serve or pass through the building or structure.

(c) **Uninterruptible Power Supplies.** Uninterruptible power supplies used to provide power for emergency systems shall comply with the applicable provisions of Sections 700-12(a) and (b).

(d) **Separate Service.** Where acceptable to the authority having jurisdiction as suitable for use as an emergency source of power, an additional service shall be permitted. This service shall be in accordance with the applicable provisions of Article 230 and following additional requirements.

(1) Separate service drop or service lateral

(2) Service conductors sufficiently remote electrically and physically from any other service conductors to minimize the possibility of simultaneous interruption of supply

(e) **Fuel Cell System.** Fuel Cell Systems used as a source of power for emergency systems shall be of suitable rating and capacity to supply and maintain the total load for not less than 2 hours of full-demand operation.

Installation of a fuel cell system shall meet the requirements of Parts II through VIII of Article 692.

Where a single fuel cell system serves as the normal supply for the building or group of buildings concerned, it shall not serve as the sole source of power for the emergency standby system.

(f) **Unit Equipment.** Individual unit equipment for emergency illumination shall consist of (1) a rechargeable battery; (2) a battery charging means (3) provisions for one or more lamps mounted on the equipment, or shall be permitted to have terminals for remote lamps, or both; and (4) a relaying device arranged to energize the lamps automatically upon failure of the supply to the unit equipment.

The batteries shall be of suitable rating and capacity to supply and maintain at not less than 87 1/2 percent of the nominal battery voltage for the total lamp load associated with the unit for a period of at least 1 1/2 hours, or the unit equipment shall supply and maintain not less than 60 percent of the initial emergency illumination for a period of at least 1 1/2 hours. Storage batteries, whether of the acid or alkali type, shall be designed and constructed to meet the requirements of emergency service.

Unit equipment shall be permanently fixed in place (i.e., not portable) and shall have all wiring to each unit installed in accordance with the requirements of any of the wiring methods in Chapter 3. Flexible cord and plug connection shall be permitted, provided that the cord does not exceed 3 ft (900 mm) in length. The branch circuit feeding the unit equipment shall be the same branch circuit as that serving the normal lighting in the area and connected ahead of any local switches. The branch circuit that feeds unit equipment shall be clearly identified at the distribution panel. Emergency luminaire's (illumination fixtures) that obtain power from a unit equipment and are not part of the unit equipment shall be wired to the unit equipment as required by Section 700-9 and by one of the wiring methods of Chapter 3.

Exception: In a separate and uninterrupted area supplied by a minimum of three normal lighting circuits, a separate branch circuit for unit equipment shall be permitted if it originates from the same panelboard as that of the normal lighting circuits and is provided with a lock-on feature.

D. Emergency System Circuits for Lighting and Power

700-15. Loads on Emergency Branch Circuits. No appliances and no lamps, other than those specified as required for emergency use, shall be supplied by emergency lighting circuits.

700-16. Emergency illumination. Emergency illumination shall include all required means of egress lighting, illuminated exit signs, and all other lights specified as necessary to provide required illumination.

Emergency lighting systems shall be designed and installed so that the failure of any individual lighting element, such as the burning out of a light bulb, cannot leave in total darkness any space that requires emergency illumination.

Where high-intensity discharge lighting such as high- and low-pressure sodium mercury vapor, and metal halide is used as the sole source of normal illumination, the emergency lighting system shall be required to operate until normal illumination has been restored.

Exception: Where alternative means that ensure the emergency lighting illumination level is maintained shall be permitted.

700-17. Circuits for Emergency Lighting. Branch circuits that supply emergency lighting shall be installed to provide service from a source complying with Section 700-12 when the normal supply for lighting is interrupted. Such installations shall provide either one of the following: (1) an emergency lighting supply, independent of the general lighting supply, with provisions for automatically transferring the emergency lights upon the event of failure of the general lighting system supply, or (2) two or more separate and complete systems with independent power supply, each system providing sufficient current for emergency lighting purposes.

Unless both systems are used for regular lighting purposes and are both kept lighted, means shall be provided for automatically energizing either system upon failure of the other. Either or both systems shall be permitted to be a part of the general lighting system of the protected occupancy if circuits supplying lights for emergency illumination arc installed in accordance with other sections of this article.

700-18. Circuits for Emergency Power. For branch circuits that supply equipment classed as emergency, there shall be an emergency supply source to which the load will be transferred automatically upon the failure of the normal supply.

E. Control—Emergency Lighting Circuits

700-20. Switch Requirements. The switch or switches installed in emergency lighting circuits shall be arranged so that only authorized persons will have control of emergency lighting.

Exception No. 1: Where two or more single-throw switches are connected in parallel to control a single circuit, at least one of these switches shall be accessible only to authorized persons.

Exception No. 2: Additional switches that act only to put emergency lights into operation but not disconnect them shall be permissible.

Switches connected in series or 3- and 4-way switches shall not be used.

700-21. Switch Location. All manual switches for controlling emergency circuits shall be in locations convenient to authorized persons responsible for their actuation. In facilities covered by Articles 518 and 520, a switch for controlling emergency lighting systems shall be located in the lobby or at a place conveniently accessible thereto.

In no case shall a control switch for emergency lighting be placed in a motion-picture projection booth or on a stage or platform.

Exception: Where multiple switches are provided, one such switch shall be permitted in such locations where arranged so that it can energize the circuit only, but cannot de-energize the circuit.

700-22. Exterior Lights. Those lights on the exterior of a building that are not required for illumination when there is sufficient daylight shall be permitted to be controlled by an automatic light-actuated device.

F. Overcurrent Protection

700-25. Accessibility. The branch-circuit overcurrent devices in emergency circuits shall be accessible to authorized persons only.

(FPN): Fuses and circuit breakers for emergency circuit overcurrent protection where coordinated to ensure selective clearing of fault currents, increase overall reliability of the system.

700-26. Ground-Fault Protection of Equipment. The alternate source for emergency systems shall not be required to have ground-fault protection of equipment with automatic disconnecting means. ground-fault indication of the emergency source shall be provided per Section 700-7(d).

700-27. Coordination. Emergency system(s) overcurrent devices shall be selectively coordinated with all supply side overcurrent protective devices.

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7.8 Illumination of Means of Egress.

7.8.1 General.

7.8.1.1* Illumination of means of egress shall be provided in accordance with Section 7.8 for every building and structure where required in Chapter 11 through Chapter 42. For the purposes of this requirement, exit access shall include only designated stairs, aisles, corridors, ramps, escalators, and passageways leading to an exit. For the purposes of this requirement, exit discharge shall include only designated stairs, aisles, corridors, ramps, escalators, walkways, and exit passageways leading to a public way.

7.8.1.2 Illumination of means of egress shall be continuous during the time that the conditions of occupancy require that the means of egress be available for use, unless otherwise provided in 7.8.1.2.2.

7.8.1.2.1 Artificial lighting shall be employed at such locations and for such periods of time as are necessary to maintain the illumination to the minimum criteria values herein specified.

7.8.1.3* The floors and other walking surfaces within an exit and within the portions of the exit access and exit discharge designated by 7.8.1.1 shall be illuminated as follows:

- (1) During conditions of stair use, the minimum illumination for new stairs shall be at least 10 ft-candle (108 lux), measured at the walking surfaces.
- (2) The minimum illumination for floors and walking surfaces, other than new stairs during conditions of stair use, shall be to values of at least 1 ft-candle (10.8 lux), measured at the floor.
- (3) In assembly occupancies, the illumination of the floors of exit access shall be at least 0.2 ft-candle (2.2 lux) during periods of performances or projections involving directed light.
- (4) *The minimum illumination requirements shall not apply where operations or processes require low lighting levels.

7.8.1.4* Required illumination shall be arranged so that the failure of any single lighting unit does not result in an illumination level of less than 0.2 ft-candle (2.2 lux) in any designated area.

7.8.1.5 The equipment or units installed to meet the requirements of Section 7.10 also shall be permitted to serve the function of illumination of means of egress, provided that all requirements of section 7.8 for such illumination are met.

7.8.2 Sources of Illumination.

7.8.2.1* Illumination of means of egress shall be from a source of considered reliable by the authority having jurisdiction.

7.8.2.2 Battery-operated electric lights and other types of portable lamps or lanterns shall not be used for primary illumination of means of egress. Battery-operated electric lights shall be permitted to be used as an emergency source to the extent permitted under Section 7.9

7.9 Emergency Lighting.

7.9.1 General.

7.9.1.1* Emergency lighting facilities for means of egress shall be provided in accordance with Section 7.9 for the following:

- (1) Buildings or structures where required in Chapter 11 through Chapter 42
- (2) Underground and limited access structures as addressed in Section 11.7
- (3) High-rise buildings as required by other sections of this *Code*
- (4) Doors equipped with delayed-egress locks
- (5) Stair shaft and vestibule of smokeproof enclosures, for which the following also apply:
 - (a) The stair shaft and vestibule shall be permitted to include a standby generator that is installed for the smokeproof enclosure mechanical ventilation equipment.
 - (b) The standby generator shall be permitted to be used for the stair shaft and vestibule emergency lighting power supply.
- (6) New access-controlled egress doors in accordance with 7.2.1.6.2.

7.9.1.2 For the purposes of 7.9.1.1, exit access shall include only designated stairs, aisles, corridors, ramps, escalators, and passageways leading to an exit. For the purposes of 7.9.1.1, exit discharge shall include only designated stairs, ramps, aisles, walkways, and escalators leading to a public way.

7.9.1.3 Where maintenance of illumination depends on changing from one energy source to another, a delay of not more than 10 seconds shall be permitted.

7.9.2 Performance of System.

7.9.2.1* Emergency illumination shall be provided for not less than 1-1/2 hours in the event of failure of normal lighting. Emergency lighting facilities shall be arranged to provide initial illumination that is not less than an average of 1 ft-candle (10.8 lux) and, at any point, not less than 0.1 ft-candle (1.1 lux) measured along the path of egress at floor level. Illumination levels shall be permitted to decline to not less than an average of 0.6 ft-candle (6.5 lux) and, at any point, not less than 0.06 ft-candle (0.65 lux) at the end of the 1-1/2 hours. A maximum-to-minimum illumination uniformity ratio of 40 to 1 shall not be exceeded.

7.9.2.2 New emergency power systems for emergency lighting shall be at least Type 10, Class 1.5, Level 1, in accordance with NFPA 110, *Standard for Emergency and Standby Power Systems*.

7.9.2.3* The emergency lighting system shall be arranged to provide the required illumination automatically in the event of any of the following:

- (1) Failure of public utility or other outside electrical power supply
- (2) Opening of a circuit breaker or fuse
- (3) Manual act(s), including accidental opening of a switch controlling normal lighting facilities

7.9.2.4 Emergency generators providing power to emergency lighting systems shall be installed, tested, and maintained in accordance with NFPA 110, *Standard for Emergency and Standby Power Systems*. Stored electrical energy systems where required in this *Code*, shall be installed and tested in accordance with NFPA 111, *Standard on Stored Electrical Energy Emergency and Standby Power Systems*.

7.9.2.5 Unit equipment and battery systems for emergency luminaires shall be listed to UL 924, *Standard for Emergency Lighting and Power Equipment*.

7.9.2.6* Existing battery-operated emergency lights shall use only reliable types of rechargeable batteries provided with suitable facilities for maintaining them in properly charged condition. Batteries used in such lights or units shall be approved for their intended use and shall comply with NFPA 70, *National Electrical Code*.

7.9.2.7 The emergency lighting system shall be either continuously in operation or shall be capable of repeated automatic operation without manual intervention.

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7.9.3 Periodic Testing of Emergency Lighting Equipment.

7.9.3.1 Required emergency lighting systems shall be tested in accordance with one of the three options offered by 7.9.3.1.1, 7.9.3.1.2, or 7.9.3.1.3.

7.9.3.1.1 Testing of required emergency lighting systems shall be permitted to be conducted as follows:

- (1) Functional testing shall be conducted at 30-day intervals for not less than 30 seconds.
- (2) Functional testing shall be conducted annually for not less than 1-1/2 hours if the emergency lighting system is battery powered.
- (3) The emergency lighting equipment shall be fully operational for the duration of the tests required by 7.9.3.1.1 (1) and 7.9.3.1.1 (2).
- (4) Written records of visual inspections and tests shall be kept by the owner for inspection by the authority having jurisdiction.

7.9.3.1.2 Testing of required emergency lighting systems shall be permitted to be conducted as follows:

- (1) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall be provided.
- (2) Self-testing/self-diagnostic, battery-operated emergency lighting equipment shall automatically perform not less than once every 30 days a test for not less than 30 seconds and a diagnostic routine.
- (3) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall indicate failures by a status indicator.
- (4) A visual inspection shall be performed at intervals not exceeding 30 days.
- (5) Functional testing shall be conducted annually for not less than 1-1/2 hours.
- (6) Self-testing/self-diagnostic battery-operated emergency lighting equipment shall be fully operational for the duration of the 1-1/2 hour test.
- (7) Written records of visual inspections and tests shall be kept by the owner for inspection by the authority having jurisdiction.

7.9.3.1.3 Testing of required emergency lighting systems shall be permitted to be conducted as follows:

- (1) Computer-based, self-testing/self-diagnostic battery-operated emergency lighting equipment shall be provided.
- (2) The emergency lighting equipment shall automatically perform not less than once every 30 days a test for not less than 30 seconds and a diagnostic routine.
- (3) The emergency lighting equipment shall automatically perform annually a test for not less than 1-1/2 hours.
- (4) The emergency lighting equipment shall be fully operational for the duration of the tests required by 7.9.3.1.3(2) and 7.9.3.1.3(3).
- (5) The computer-based system shall be capable of providing a report of the history of tests and failures at all times.

7.10 Marking of Means of Egress.

7.10.1 General.

7.10.1.1 Where Required. Means of egress shall be marked in accordance with section 7.10 where required in Chapter 11 through Chapter 42.

7.10.1.2* Exits. Exits, other than main exterior exit doors that obviously and clearly are identifiable as exits, shall be marked by an approved sign that is readily visible from any direction of exit access.

7.10.1.3 Exit Door Tactile Signage. Tactile signage shall be provided to meet the following criteria, unless otherwise provided in 7.10.1.4:

- (1) Tactile signage shall be located at each exit door requiring an exit sign.
- (2) Tactile signage shall read as follows: EXIT.
- (3) Tactile signage shall comply with ICC/ANSI A117.1, *American National Standard for Accessible and Usable Buildings and Facilities*.

7.10.1.4 Existing Exemption. The requirements of 7.10.1.3 shall not apply to existing buildings, provided that the occupancy classification does not change.

7.10.1.5 Exit Access.

7.10.1.5.1 Access to exits shall be marked by approved, readily visible signs in all cases where the exit or way to reach the exit is not readily apparent to the occupants.

7.10.1.5.2* New sign placement shall be such that no point in an exit access corridor is in excess of the rated viewing distance or 100 ft (30 m), which ever is less, from the nearest sign.

7.10.1.6* Floor Proximity Exit Signs. Where floor proximity exit signs are required by Chapter 11 through Chapter 42, such signs shall be located near the floor level in addition to those signs required for doors or corridors. These signs shall be illuminated in accordance with 7.10.5. Externally illuminated signs shall be sized in accordance with 7.10.6.1. The bottom of the sign shall be not less than 6 in. (150 mm), but not more than 18 in. (455 mm), above the floor. For exit doors, the sign shall be mounted on the door or adjacent to the door, with the nearest edge of the sign within 4 in. (100 mm) of the door frame.

7.10.1.7* Floor Proximity Egress Path Marking. Where floor proximity egress path marking is required in Chapter 11 through Chapter 42, a listed and approved floor proximity egress path marking system that is internally illuminated shall be installed within 18 in. (455 mm) of the floor. The system shall provide a visible delineation of the path of travel along the designated exit access and shall be essentially continuous, except as interrupted by doorways, hallways, corridors, or other such architectural features. The system shall operate continuously or at any time the building fire alarm system is activated. The activation, duration, and continuity of operation of the system shall be in accordance with 7.9.2. The system shall be maintained in accordance with the product manufacturing listing.

7.10.1.8* Visibility. Every sign required in Section 7.10 shall be located and of such size, distinctive color, and design that it is readily visible and shall provide contrast with decorations, interior finish, or other signs. No decorations, furnishings, or equipment that impairs visibility of a sign shall be permitted. No brightly illuminated sign (for other than exit purposes), display, or object in or near the line of vision of the required exit sign that could detract attention from the exit sign shall be permitted.

7.10.1.9 Mounting Location. The bottom of new egress markings shall be located at a vertical distance of not more than 6 ft 8 in. (2030 mm) above the top edge of the egress opening intended for designation by that marking. Egress markings shall be located at a horizontal distance of not more than the required width of the egress opening, as measured from the edge of the egress opening intended for designation by that marking to the nearest edge of the marking.

7.10.2* Directional Signs. A sign complying with 7.10.3 with a directional indicator showing the direction of travel shall be placed in every location where the direction of travel to reach the nearest exit is not apparent.

7.10.3* Sign Legend.

7.10.3.1 Signs required by 7.10.1 and 7.10.2 shall read as follows in plainly legible letters, or other appropriate working shall be used:

EXIT

7.10.3.2* Where approved by the authority having jurisdiction, pictograms shall be permitted.

7.10.4* Power Source. Where emergency lighting facilities are required by the applicable provisions of Chapter 11 through Chapter 42 for individual occupancies, the signs, other than approved self-luminous signs and listed photoluminescent signs in accordance with 7.10.7.2, shall be illuminated by the emergency lighting facilities. The levels of illumination of the signs shall be in accordance with 7.10.6.3 or 7.10.7 for the required emergency lighting duration as specified in 7.9.2.1. However, the level of illumination shall be permitted to decline to 60 percent at the end of the emergency lighting duration.

7.10.5 Illumination of Signs.

7.10.5.1* General. Every sign required by 7.10.1.2, 7.10.1.5, or 7.10.8.1, other than where operations or processes require low lighting levels, shall be suitably illuminated by a reliable light source. Externally and internally illuminated signs shall be legible in both the normal and emergency lighting mode.

7.10.5.2* Continuous Illumination.

7.10.5.2.1 Every sign required to be illuminated by 7.10.6.3, 7.10.7, and 7.10.8.1 shall be continuously illuminated as required under the provisions of Section 7.8, unless otherwise provided in 7.10.5.2.2.

7.10.6 Externally Illuminated Signs.

7.10.6.1* Size of Signs.

7.10.6.1.1 Externally illuminated signs required by 7.10.1 and 7.10.2, other than approved existing signs, unless otherwise provided in 7.10.6.1.2, shall read EXIT or shall use other appropriate wording in plainly legible letters sized as follows:

- (1) For new signs, the letters shall be not less than 6 in. (150 mm) high, with the principal strokes of letters not less than 3/4 in. (19 mm) wide.
- (2) For existing signs, the required wording shall be permitted to be in plainly legible letters not less than 4 in. (100 mm) high.
- (3) The word EXIT shall be in letters of a width not less than 2 in. (51 mm), except the letter I, and the minimum spacing between letters shall be not less than 3/8 in. (9.5 mm).
- (4) Signs legend elements larger than the minimum established in 7.10.6.1.1(1) through 7.10.6.1.1(3) shall use letter widths, strokes, and spacing in proportion to their height.

7.10.6.1.2 The requirements of 7.10.6.1.1 shall not apply to marking required by 7.10.1.3 and 7.10.1.6.

7.10.6.2* Size and Location of Directional Indicator.

7.10.6.2.1 Directional indicators, unless otherwise provided in 7.10.6.2.2, shall comply with the following:

- (1) The directional indicator shall be located outside of the EXIT legend, not less than 3/8 in. (9.5 mm) from any letter.
- (2) The directional indicator shall be of a chevron type, as shown in Figure 7.10.6.2.1.
- (3) The directional indicator shall be identifiable as a directional indicator at a distance of 40 ft (12 m).
- (4) A directional indicator larger than the minimum established for compliance with 7.10.6.2.1(3) shall be proportionately increased in height, width, and stroke.
- (5) The directional indicator shall be located at the end of the sign for the direction indicated.



Figure 7.10.6.2.1 Chevron-Type Indicator.

7.10.6.2.2 The requirements of 7.10.6.2.1 shall not apply to approved existing signs.

7.10.6.3* Level of Illumination. Externally illuminated signs shall be illuminated by not less than 5ft-candles (54 lux) at the illuminated surface and shall have a contrast ratio of not less than 0.5.

7.10.7 Internally Illuminated Signs.

7.10.7.1 Listing. Internally illuminated signs shall be listed in accordance with UL 924, *Standard for Emergency Lighting and Power Equipment*, unless they meet one of the following criteria:

- (1) They are approved existing signs.
- (2) They are existing signs having the required wording in legible letters not less than 4 in. (100 mm) high.
- (3) They are signs that are in accordance with 7.10.1.3 and 7.10.1.6.

7.10.7.2* Photoluminescent Signs. The face of a photoluminescent sign shall be continually illuminated while the building is occupied. The illumination levels on the face of the photoluminescent sign shall be in accordance with its listing. The charging illumination shall be a reliable light source as determined by the authority having jurisdiction. The charging light source shall be of a type specified in the product markings.

7.10.8 Special Signs.

7.10.8.1 Sign Illumination.

7.10.8.1.1 Where required by other provisions of this *Code*, special signs shall be illuminated in accordance with 7.10.5, 7.10.6.3, and 7.10.7.

7.10.8.1.2 Where emergency lighting facilities are required by the applicable provisions of Chapter 12 through Chapter 42, the required illumination of special signs shall additionally be provided under emergency lighting conditions.

7.10.8.2 Characters. Special signs, where required by other provisions of this *Code*, shall comply with the visual character requirements of ICC/ANSI A117.1, *American National Standard for Accessible and Usable Buildings and Facilities*.

7.10.8.3* No Exit.

7.10.8.3.1 Any door, passage, or stairway that is neither an exit nor a way of exit access and that is located or arranged so that it is likely to be mistaken for an exit shall be identified by a sign that reads as follows.

NO
EXIT

7.10.8.3.2 The NO EXIT sign shall have the word NO in letters 2 in. (51 mm) high, with a stroke width of 3/8 in. (9.5 mm), and the word EXIT in letters 1 in. (25 mm) high, with the word EXIT below the word NO, unless such sign is an approved existing sign.

7.10.9 Testing and Maintenance.

7.10.9.1 Inspection. Exit signs shall be visually inspected for operation of the illumination sources at intervals not to exceed 30 days or shall be periodically monitored in accordance with 7.9.3.1.3.

7.10.9.2 Testing. Exit signs connected to or provided with a battery-operated emergency illumination source, where required in 7.10.4, shall be tested and maintained in accordance with 7.9.3.

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Limited Warranty

- 1.0 **EMERGI-LITE** 6, 12 and 24 volt Emergency Lighting Unit Equipment (excluding lamps and fuses) are fully warranted to be free of defects in material and workmanship under normal use for a period of three years from date of installation (see Paragraph 2.0).
- 1.1 **EMERGI-LITE** 6, 12 and 24 volt Unit Equipment Batteries are warranted as follows (Warrant below includes the 3-year full warranty on entire unit as called out in Paragraph 1.0).
- 1.2 **EMERGI-LITE** volt Emergency Lighting Unit Equipment (excluding lamps, and fuses) is fully warranted to be free of defects in material and workmanship under normal use for a period of one year from date of installation (see Paragraph 2.0).

BATTERY TYPE	LIFE EXPECTANCY	SHELF LIFE*	FULL WARRANTY	PRO RATA WARRANTY
Sealed Lead-Calcium	8 years	6 months	3 years	3 years
Sealed Lead-Calcium Immobilized Electrolyte)	12 years	6 months	5 years	5 years
Sealed Long Life Lead	12 years	6 months	5 years	5 years
Sealed Nickel-Cadmium	15 years	1 year	5 years	7 years
Refillable Lead-Calcium	15 years	6 months	3 years	8 years
Refillable Nickel-Cadmium	15 years	2 years	5 years	7 years

***MAXIMUM STORAGE LIFE. MUST BE RECHARGED IF NOT PLACED IN SERVICE OR BATTERY WARRANTY VOID**

- 2.0 The full warranty period begins on the date of installation or 90 days from date of shipment, whichever date is earlier.
- 2.1 Should a defect appear in the equipment or batteries listed in Paragraphs 1.0, 1.1 or 1.2 above within the specified full warranty period, Emergi-Lite will repair or replace equipment without charge (see Paragraph 3.3). Such repair or replacement shall be the purchaser's exclusive remedy.
- 2.2 The Pro Rata Warranty Period for batteries begins on the date the full warranty period ends.
- 2.3 A battery determined to be defective during the Pro Rata Warranty Period shall be repaired or replaced at a cost equal to the net price in effect at the time, reduced by the percentage obtained in multiplying 10% by the number of full years remaining in the total warranty period. Such repair or replacement at this adjusted price shall be the purchaser's exclusive remedy.
- 3.0 All warranties are subject to proper installation and maintenance in accordance with the instructions supplied.
- 3.1 Any material deemed defective must be returned, freight prepaid, to the factory for evaluation (see Paragraph 5.0-5.3). Any changes in circuitry or components by other than authorized Emergi-lite personnel or its service companies will void the warranty.
- 3.2 All warranties are limited to the repair and/or replacement or parts or equipment, which, upon examination at our plant, are determined to be defective and in our judgement are subject to repair or replacement under warranty. Replacement of lamps and fuses is not included in the warranty.
- 3.3 If new replacement parts are shipped before defective goods are received for evaluation, the replacement parts will be invoiced at the net price in effect at that time. These charges will be credited if, upon receipt and evaluation of goods, a defect is determined. Only replacement parts will be shipped under these circumstances, if field replacement is possible. **EMERGI-LITE FACTORY ONLY RESERVES THE RIGHT TO SHIP NEW UNIT EQUIPMENT FOR REPLACEMENT PURPOSES.** Units returned after installation cannot be restored to 100% saleable condition.
- 4.0 In no event shall Emergi-lite be liable for backcharges of any kind, including, without limitation, labor charges for field repair or late penalties.
- 4.1 This warranty does not cover damages caused by improper maintenance of installation or damage due to installation in areas with other than normal temperatures and environmental conditions per application specifications. Emergi-lite assumes no responsibility for any damage to people, property, apparatus or otherwise resulting from improper installation or maintenance of its Emergency Lighting Unit Equipment.
- 4.2 This warranty does not cover damages caused by abuse, fire or Act of God.
- 4.3 In no event shall Emergi-lite be liable for incidental or consequential damages.
- 4.4 The foregoing warranty is in lieu of all other warranties, expressed or implied, or merchantability, fitness for a particular purpose or any other thing. Except as stated in this warranty, Emergi-lite shall not be liable for any defects in, or breach of any contract relating to, the quality of performance of Emergi-lite Equipment under any theory of law including, without limitation, contract, negligence, strict liability or misrepresentation.
- 4.5 Emergi-lite warranty coverage shall not apply to any equipment of another manufacturer used in conjunction with Emergi-lite Equipment.
- 4.6 Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This written warranty gives you specific legal rights and you may also have other rights which vary from state to state.
- 5.0 No returned defective materials will be accepted without a Returned Goods Authorization issued in writing by an authorized Emergi-lite employee.
- 5.1 Purchaser is responsible for secure packing of returned materials to provide best possible assurance against damage in shipment.
- 5.2 Defective batteries of any kind must not be returned to Emergi-lite's factory without strict adherence to special instructions for handling and shipping. **WARNING** Never ship a refillable wet battery in any type of emergency lighting equipment. Failure to adhere to this policy will void warranty.
- 5.3 Defective goods returned to the factory must be shipped prepaid. **COLLECT RETURNED SHIPMENT WILL BE REFUSED.** Freight charges to return repaired equipment or ship replacement equipment to the purchaser to be paid by Emergi-lite. Factory will return repaired goods via same shipping method as received.

FAILURE TO COMPLY WITH ANY OF THE STIPULATIONS SET FORTH WILL VOID THE WARRANTY.

ANY EXCEPTIONS TO THE FOREGOING WARRANTY MUST BE REQUESTED AND ACCEPTED IN WRITING PRIOR TO SHIPMENT.

EMERGI-LITE EQUIPMENT NOT LISTED IN PARAGRAPHS 1.0, 1.1 OR 1.2 IS WARRANTED AS DESCRIBED

ON ITS INDIVIDUAL DATA SHEET WITH THE STIPULATIONS AS STATED IN PARAGRAPHS 2.0-5.3.

