

Mini Inverters Illuminator LVM & LV

WHY MYERS EPS?

Myers Emergency Power Systems (EPS) has a long history of engineering and manufacturing the highest quality and most reliable backup power solutions in the industry. Myers EPS' centralized and mini inverters provide emergency lighting and illuminate the path to safety during critical outages.

Advanced Technology

Designed with Myers EPS' advanced Pure Sine Wave technology, the mini inverters provide direct AC power and full illumination to all lighting sources. With industry-leading efficiencies, they run cool and reduce the overall operating costs of emergency lighting systems.

Unlimited Compatibility and Cost Savings

The efficient mini inverter products empower architects and engineers to fulfill emergency lighting requirements while using existing luminaires for interior and exterior egress. As the industry continues to move towards low wattage LED sustainable solutions, the low initial cost and substantial long-term savings is changing how specifiers and building owners view the mini inverter market. Mini inverters are the emergency lighting solution of choice.



ADVANTAGES OF MYERS EPS MINI INVERTERS

Design Freedom

- ✓ Never compromise the design's intent or aesthetics
- ✓ Utilize existing luminaires for emergency lighting
- ✓ Eliminate bug-eyes and other unsightly products

Compatibility

- ✓ Compatible with all luminaire sources and fixtures
 - LED, Integral LED Based Lamps, Fluorescent, HID and Incandescent
- ✓ Accepts products with a power factor range of .5 lead to .5 lag

Pure Sine Wave Technology

- ✓ Designed to handle complex inrush current and high crest factor requirements from varying LED technologies
- ✓ Low harmonic distortion reduces heating effects in loads; < 3% THD
- ✓ Efficiencies up to 98% - Requires no fans and reduces energy consumption

Centralized Location

- ✓ Illuminate an entire building from a single location
- ✓ Save time and money with centralized testing

Full Lumen Output

- ✓ All luminaires run at full lumen output during a power outage
- ✓ The photometric calculations are identical whether the unit is in normal or emergency use

Code Compliance

- ✓ Perfect for high ceilings and other installations where testing and logging can prove challenging
- ✓ Meets UL 924 and NFPA 101 requirements



THE BETTER INVESTMENT

Compare and Save

When comparing other emergency lighting solutions such as battery packs, inverters provide significant savings. Below outlines a typical commercial office with 22 lighting fixtures, showing the cost of ownership over 10 years. **When comparing the initial cost and overall maintenance, mini inverters provide building owners an estimated 47% in savings.**



10-YEAR COST COMPARISON CALCULATION

BATTERY PACK

MINI INVERTER

INITIAL PURCHASE COST

22 fixtures x \$200 per battery = \$4,400

Illuminator LV = \$2,200



COST OF CODE COMPLIANCE TESTING

Battery Testing
12 monthly tests x 22 fixtures = 264 yearly tests at \$60/hourly labor* = **\$15,840**



Tests are conducted & documented **AUTOMATICALLY = \$0** by the inverters

ANNUAL MAINTENANCE (other than testing)

= \$0

1 service visit per year to perform annual maintenance as suggested by Myers EPS = \$1,000 / service trip x 10 years = **\$10,000****

COST OF BATTERY REPLACEMENT

5-year life batteries (changed 2 times) = 44 batteries x \$200 = \$8,800 + labor* at \$60/hr (\$1,320) = **\$10,120**



10-year life batteries, change 3 batteries once = \$939 + DC capacitor at \$150 + labor at \$1,000/day = **\$2,089**

TOTAL COST OF 10-YEAR OWNERSHIP



\$30,360

47% SAVINGS compared to battery packs



\$14,289



* Labor rates vary by region
** Annual maintenance is suggested by Myers EPS but not required

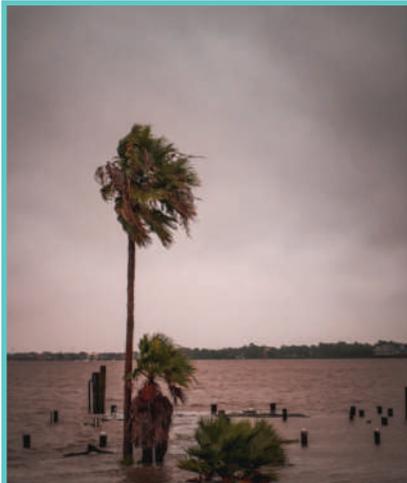
CRITICAL EMERGENCY

Patients can't wait for the average eight-second delay with generators. Myers EPS inverters utilize high frequency pulse width modulation technology for a guaranteed two-millisecond to ten-millisecond transfer time.

Specify Myers EPS when lives matter.



ILLUMINATES THE DARKEST OF TIMES



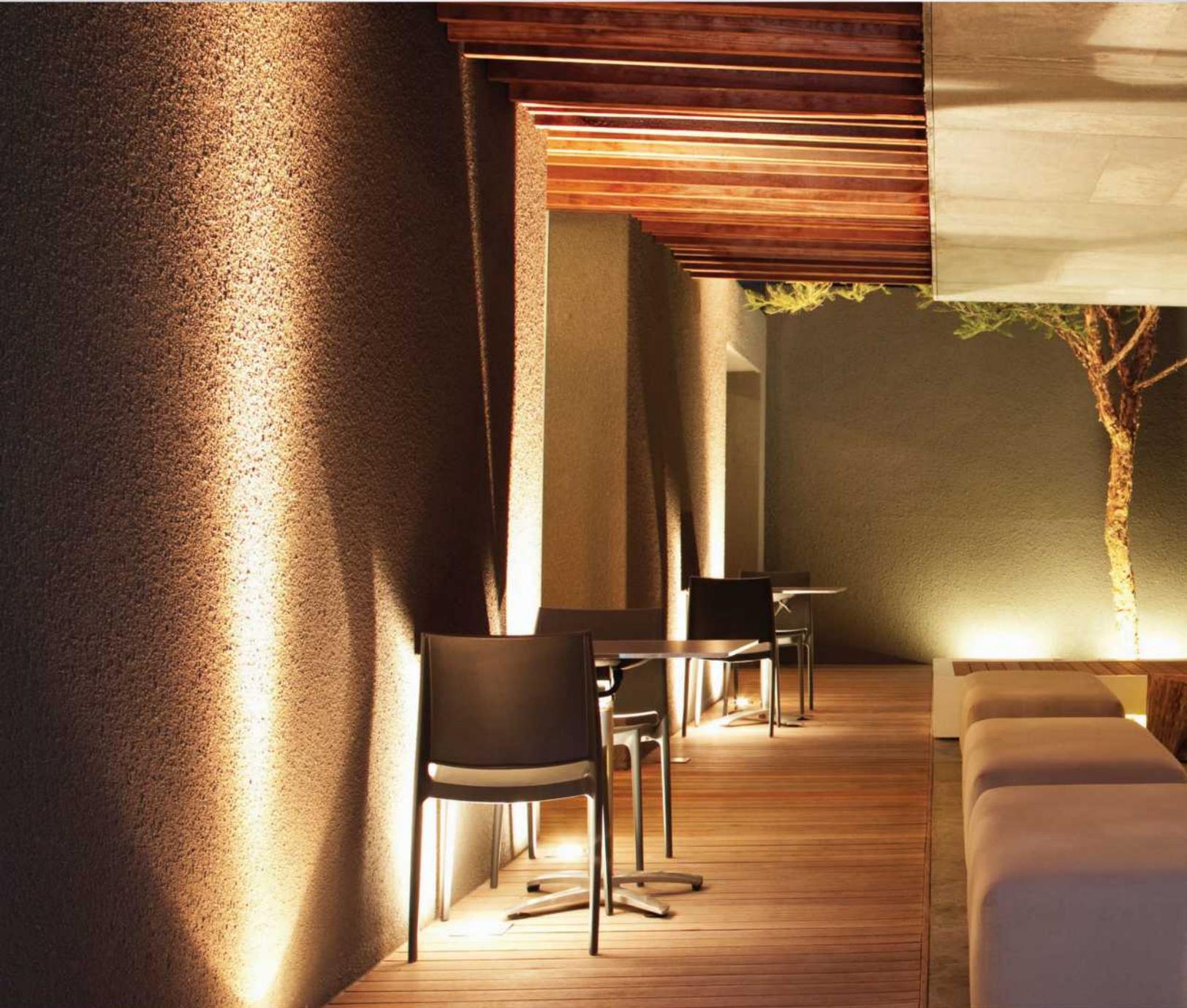
**Whatever the disaster,
Myers EPS has you covered!**



FEMA



		ILLUMINATOR SERIES LVM			ILLUMINATOR SERIES LV		
POWER RATING		110VA	225VA	175VA	350VA	550VA	750VA
INPUT	DIMENSIONS	Wall: H: 14 3/4" W: 16 1/4" D: 4 1/4" Grid: H: 7 1/2" W: 23 3/8" D: 8"	Wall: H: 23 1/4" W: 16 1/4" D: 4 1/4" Grid: H: 7 1/2" W: 23 3/8" D: 8"	Wall: H: 28" W: 25" D: 11" Grid: H: 7 1/2" W: 23 3/8" D: 8"	H: 22" W: 19" D: 9 1/4"		H: 22" W: 25 1/4" D: 9 1/4"
	WEIGHT	37	60	55	100	130	180
	INPUT VOLTAGE	120VAC or 277VAC, 1-Phase 2-wire +10% -15%.			Field Selected 120VAC or 277VAC, 1-Phase 2-wire +10% -15%.		
	INPUT FREQUENCY	60Hz, +/- 3%					
	SYNCHRONIZING SLEW RATE	1Hz per second nominal					
	PROTECTION	Fuse					
	HARMONIC DISTORTION - VOLTAGE	< 10% (For resistive load)					
	SYSTEM SHORT CIRCUIT	1,500 AIC			10,000 AIC for 120V Systems & 1,500 AIC for 277V Systems		
	OUTPUT VOLTAGE	120VAC or 277VAC, 1-Phase 2-wire			Field Selected 120VAC or 277VAC, 1-Phase 2-wire		
	OUTPUT	STATIC VOLTAGE	Load current change +/- 2%, battery discharge +/- 12.5%				
DYNAMIC VOLTAGE		+/- 10% for a load step change; Recovery within 3 cycles					
HARMONIC DISTORTION - VOLTAGE		<3% THD for linear load					
OVERLOAD		Input Fuse protected on AC mains & timed overcurrent during inverter operation			Fuse	Standard: Fuse; Optional: Circuit Breaker	
OUTPUT FREQUENCY		60Hz +/- .05Hz During emergency mode					
LOAD POWER FACTOR		.5 Lag to .5 lead					
INVERTER OVERLOAD		250% For 25 cycles, 110% Continuously			250% For 16 cycles, 110% Continuously		
PROTECTION		Fuse			Fuse	Optional distribution circuit breaker(s)	
CREST FACTOR		2.8			3.5		
OUTPUT TYPES		Normally-On, Normally-Off or Switched					
BATTERY	RUN TIME (MINUTES / WATTS) (90 MINUTES STANDARD)	120 / 80 180 / 55 240 / 45	120 / 175 180 / 120 240 / 95	120 / 135 180 / 95 240 / 75	120 / 275 180 / 200 240 / 150	120 / 450 180 / 325 240 / 225	120 / 575 180 / 425 240 / 300
	BATTERY TYPE	Valve-Regulated Sealed Lead-Calcium					
	CHARGER	Microprocessor controlled, 3-stage charger (Recharge per UL-924 specifications)					
	PROTECTION	Automatic low-battery disconnect; Automatic restart upon utility return					
ENVIRONMENTAL	DISCONNECT	Fuse - Quick disconnect terminal			Fuse		
	ALTITUDE	< 10,000 feet (above sea level) without derating					
	OPERATING TEMPERATURE	Inverter: 32° to 104° F (0° to 40° C); Battery: 68° to 86° F (20° to 30° C) per UL-924					
	STORAGE TEMPERATURE	-4° to 158° F (-20° to 70° C) (Electronics only)					
GENERAL	RELATIVE HUMIDITY	< 95% (Non-condensing)					
	DESIGN	Line interactive PWM inverter type utilizing MOSFET technology with 2ms transfer time; 98% efficiency					
	GENERATOR INPUT	Compatible with generators (10kVA or larger)			Compatible with generators (25kVA or larger)		
	INDICATOR LIGHTS & SWITCH	AC present, Charging, Ready, Inverter & Test Switch			Charging, Ready, Inverter & Test Switch		
	OPTIONAL CONTROL PANEL				Optional OLED display with keypad controls / functions & scrolling system status		
	OPTIONAL METERING				Input & output voltage, battery voltage, battery & output current, output VA, temperature, inverter wattage		
	OPTIONAL ALARMS				High / low battery charger fault, near low battery, low battery, load temperature, inverter fault, output fault, optional circuit breaker trip		
	OPTIONAL COMMUNICATIONS				Standard: RS-232 port (DB9); Optional: E-mail/modem, Network adapter, BACnet MS/TP		
	OPTIONAL FAST CHARGE				*	*	*
	OPTIONAL BATTERY STRAPPING				*	*	*
PHYSICAL	OPTIONAL USB MASS STORAGE				*	*	*
	OPTIONAL 0-10V DIMMING	*	*				
	OPTIONAL DIMMING RELAY				*	*	*
	OPTIONAL ZONE MONITORING				*	*	*
ALARM CONTACTS	Summary Fault Form "C"			Optional summary form "C" contacts, Inverter On Contact (IOC) and/or status monitoring contacts			
NYC APPROVED				*	*	*	
WARRANTY	Electronics: 3 year standard warranty Battery: 1 year full / 9 years prorated (Optional extended warranties, start up and service plans available)						
CABINET	Recess or grid			Recess, wall or grid	Wall or optional floor mount		
ENCLOSURE COLOR	Red			Red (standard); white, grey, black available			
COOLING	Convection cooled						
CABLE ENTRY	Top or side						
ACCESS	Front						



MYERS
EMERGENCY POWER SYSTEMS

*Specifications and dimensions are subject to change without notice.
Please contact your local Myers EPS representative for the most up-to-date information and product application support.*

610-868-3500
InverterSales@MyersEPS.com
www.MyersEPS.com

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