



LIGHTING PRODUCTS QUICK REFERENCE GUIDE



3 GENERATIONS OF FAMILY OWNERSHIP

Left: Ira Greenberg, CEO | **Center:** Marvin Spielman, Founder | **Right:** Fred Greenberg, President and CFO

Since our founding more than 70 years ago by a veteran returning home from World War II, Keystone has grown into North America's leading independently owned driver, ballast, and lighting manufacturer.

We serve the largest lighting fixture manufacturers in North America as well as thousands of local, regional, and national wholesale distributors.

Now in our third generation of family ownership, we are proud of our manufacturing heritage and our unique ability to meet the changing needs of our OEM and distributor customers. Since 1945, our dedication to product innovation and exceptional service has earned our customers' trust. No wonder why many of our customers have been loyal to us since day one!

HERE FOR YOU



CELEBRATING 70 YEARS

ONE
STOP
SHOP

Keystone is the one stop shop for all your lighting needs: LED solutions, LED tubes and lamps, ballasts and retrofit kits.



100%
SATISFACTION
GUARANTEED

Customer satisfaction is our top priority. Our phones are always answered by an educated, caring team member. Should you need it, our products are backed with an industry-leading warranty.

Proudly standing behind more than
100 MILLION
KEYSTONE BALLASTS
AND DRIVERS in use today.

TABLE OF CONTENTS



REFERENCES

- 2 Quick Ship Program
- 2 100% Quality Control Process

LINEAR LED TUBES

- 3 SmartDrive
- 4 T5 DirectDrive
- 5 T8 DirectDrive
- 6 Dimmable T8 DirectDrive
- 6 ComboDrive
- 7 Fixtures and Accessories for DirectDrive Tubes

HID REPLACEMENT LED LAMPS

- 8 DirectDrive 360° LED Lamps
- 9 Xpander DirectDrive 180° LED Lamps
- 10 SmartDrive

COMPACT LED LAMPS

- 11 SmartDrive
- 11 DirectDrive

LED ACCESSORIES

- 12 High Bay Occupancy Sensors
- 12 Wet Location Occupancy Sensors
- 12 Sockets

LED FIXTURES

- 13 PanelEdge LED Panel Lights
- 14 ArmorLight Temporary LED High Bay Fixtures
- 15 LED Shop Lights

EMERGENCY BACK-UP SOLUTIONS

- 16 Smart Safe LED Emergency Back-Up
- 17 Linear Fluorescent
- 17 Compact Fluorescent

FUTURE FIT LED KITS

- 18 Linear Module and Driver Kits
- 19 Circular
- 20 Rectangular
- 21 Sconce

LED DRIVERS

- 22 Constant Current
- 23 Constant Voltage
- 23 Programmable Drivers

FLUORESCENT TUBES

- 24 T12 Linear
- 24 T8 Linear
- 24 T5 Linear
- 24 T9 Circular

FLUORESCENT BALLASTS

- 25 T12
- 25 T8 Instant Start
- 25 T8 Program Start
- 26 T5
- 26 T5HO
- 26 Compact Fluorescent
- 26 Circline

SIGN BALLASTS

- 27 SmartWire
- 28 Parallel Wire

HID BALLASTS

- 29 Metal Halide
- 29 F-Can Metal Halide
- 30 Pulse Start Metal Halide
- 31 High Pressure Sodium

TRANSFORMERS

- 32 12V Halogen Transformers
- 32 Step Down Transformers

QUICK SHIP PROGRAM

Keystone's got you covered from Florida to Oregon and everywhere in between.



Time is money when it comes to servicing your customers. That's why we pledge to ship most items the very same day you place your order. In fact, most orders are **DELIVERED NEXT DAY** thanks to Keystone's strategically located, nationwide fulfillment centers.

Our network of **22 FULFILLMENT CENTERS** across the country enables industry-leading service with next day delivery to most points in the United States. **Need it even faster?** Same day pickup is available. **Have questions?** Our personal customer service will get you the answers you need right away.



Headquarters: Philadelphia, PA

Additional Fulfillment Center Locations:

Atlanta, GA	Los Angeles, CA
Boston, MA	Louisville, KY
Charlotte, NC	Memphis, TN
Chicago, IL	Minneapolis, MN
Cincinnati, OH	Nashville, TN
Dallas, TX	New Orleans, LA
Denver, CO	Phoenix, AZ
Detroit, MI	Portland, OR
Fort Lauderdale, FL	San Francisco, CA
Houston, TX	Syracuse, NY
Kansas City, MO	

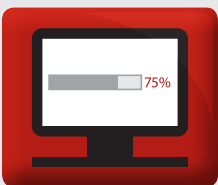
100% QUALITY CONTROL PROCESS



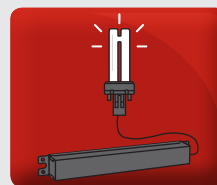
Step 1: Incoming Parts Inspection
100% of all component parts are inspected upon receipt.



Step 4: Hi-Pot Testing
After the circuit board is mounted inside the casing, every unit undergoes a hi-pot test which checks for abnormalities in operating voltage and current.



Step 2: In-Circuit Testing
After all components are populated on the printed circuit board, every ballast is tested for circuit integrity using computer aided testing protocols.



Step 5: Burn-In Testing
Once each ballast is sealed and all assembly is complete, each unit is connected to the proper lamps and powered at full load for at least one hour, thus eliminating virtually any manufacturing or component defects.





Step 3: Functional Testing
Subsequently, every unit is connected to a computerized functional testing apparatus that confirms all electrical input and output characteristics measure within specified tolerances.




Quality Guaranteed
From newly received components to finished ballasts, we make sure that testing is 100% completed at each step of our quality control process so that the products reaching our customers are free of virtually any type of defects.



Catalog Number	Nominal Length	Bare Lamp Wattage	Nominal Lumens	Bare Lamp Efficacy	System Wattage			Initial Lumens			Beam Angle	Light Spread	Meets DLC	Additional Approvals
					.78 BF	.88 BF	1.18 BF	.78 BF	.88 BF	1.18 BF				
T8 SHATTERPROOF COATED GLASS CONSTRUCTION													Also available in uncoated glass construction upon request.	
KT-LED8T8-24GC-8xx-S	2'	8W	1100	138 lm/W	10.2W	11.8W	15.2W	945	1080	1370	220°	325°	Yes	
KT-LED11T8-36GC-8xx-S	3'	11W	1450	132 lm/W	11.7W	13.7W	17.8W	1210	1400	1780	220°	325°	N/A	
KT-LED11.5T8-48GC-8xx-S	4'	11.5W	1800	157 lm/W	12.6W	14.9W	19.4W	1470	1710	2090	220°	325°	Yes	
KT-LED14T8-48GC-8xx-S	4'	14W	1800	129 lm/W	14.2W	16.4W	22.1W	1620	1870	2490	220°	325°	No	
KT-LED15T8-48GC-8xx-S	4'	15W	2200	147 lm/W	17.2W	20.2W	27.8W	1930	2200	2800	220°	325°	Yes	

Catalog Number	Nominal Length	Bare Lamp Wattage	Initial Lumens	Bare Lamp Efficacy	System Wattage	Beam Angle	Light Spread	Meets DLC	Additional Approvals
T5 AND T5HO SHATTERPROOF COATED GLASS CONSTRUCTION									
KT-LED13T5HE-48GC-8xx-S	4'	13W	1800	130 lm/W	17W	240°	325°	No	N/A
KT-LED25.5T5HO-48GC-8xx-S	4'	25.5W	3200	125 lm/W	30W	240°	325°	Yes	

Catalog Number	Nominal Length	Bare Lamp Wattage	Nominal Lumens	Bare Lamp Efficacy	System Wattage			Initial Lumens			Beam Angle	Light Spread	Meets DLC	Additional Approvals
					.78 BF	.88 BF	1.18 BF	.78 BF	.88 BF	1.18 BF				
U-BEND SHATTERPROOF COATED GLASS CONSTRUCTION														
KT-LED15T8-U6GC-8xx-S	6" U-Bend	15W	2200	147 lm/W	17.7W	20.2W	26.7W	1930	2200	2800	220°	325°	Yes	

For all Keystone SmartDrive linear LED tubes, input voltage is ballast dependent and CRI >80.

Tubes listed above meet DLC 4.0+ requirements, unless otherwise noted. DLC 3.0 tubes are available by special request.

*8xx denotes several color temperatures available:

830	800 Series, 3000K	835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K
------------	-------------------	------------	-------------------	------------	-------------------	------------	-------------------

OPTIONAL 0-10V DIMMING DRIVER FOR 11.5-15W SmartDrive T8 TUBES

Catalog Number	No. of Lamps	Input Volts	Line Current	Min. Power Factor	Output Current	Dimming Method
KTLD-2LEDT8-UV-IS-VDIM	1-2	120-277V	0.40-0.06A	0.9	190-210mA	0-10V

8' STRIP READY KIT

Catalog Number	Description
KT-RKIT-SP-W-82-C4-432I-N-W	4-Lamp 8' Strip Ready Kit. Pre-Wired 4.25" Ballast Cover Kit for SmartDrive LED Tubes or Fluorescent Lamps; Includes (1) Pre-Wired Ballast with Sockets, (2) 4' Ballast Covers, and (8) Tek Screws

Consult Keystone for other custom options, such as alternate ballast types and additional reflectors.

LINEAR LED TUBES

T5 DirectDrive



NEW! DIRECT DRIVE LED
LINE VOLTAGE T5 TUBES



PRODUCT FEATURES

- Replacement for Conventional T5HE and T5HO Fluorescent Lamps
- Shatterproof Glass Construction
- Easy Installation: Re-Wire Existing Unshunted Sockets in the Fixture
- Peak Performance: Up to 3,400 Lumens
- Over 50% Energy Savings Compared to Fluorescent T5HE and T5HO Lamps
- Eliminates the Need for Multiple Expensive Ballasts in 6-Lamp High Bay Fixtures
- Environmentally Friendly: No Mercury Used
- Instant Startup
- Frosted Lens Eliminates Pixelation
- Operating Temperature: -20°C/-4°F to 45°C/113°F
- Integral Driver (Isolated), Eliminates the Need for External Driver or Ballast

Catalog Number	Nominal Length	Input Voltage	CRI	Lamp Wattage	Lumens	Beam Angle	Light Spread	Efficacy	Meets DLC
T5HE SHATTERPROOF COATED GLASS CONSTRUCTION									
KT-LED9T5HE-24GC-8xx-D	2'	120-277V	>80	9W	1200	240°	325°	133 lm/W	No
KT-LED12T5HE-36GC-8xx-D	3'	120-277V	>80	12W	1400	240°	325°	116 lm/W	No
KT-LED13T5HE-48GC-8xx-D	4'	120-277V	>80	13W	1800	240°	325°	139 lm/W	Yes
T5HO SHATTERPROOF COATED GLASS CONSTRUCTION									
KT-LED12T5HO-24GC-8xx-D	2'	120-277V	>80	12W	1500	240°	325°	125 lm/W	No
KT-LED16T5HO-36GC-8xx-D	3'	120-277V	>80	16W	1900	240°	325°	119 lm/W	No
KT-LED25T5HO-48GC-8xx-D	4'	277V	>80	25W	3400	240°	325°	136 lm/W	Yes

*8xx denotes several color temperatures available:




835 800 Series, 3500K **840** 800 Series, 4000K **850** 800 Series, 5000K






DIRECT DRIVE LED

LINE VOLTAGE T8 TUBES



Catalog Number	Nominal Length	Input Voltage	CRI	Lamp Wattage	Lumens	Beam Angle	Light Spread	Efficacy	Meets DLC	Additional Approvals
T8 SHATTERPROOF COATED GLASS CONSTRUCTION										
KT-LED7T8-24GC-8xx-D	2'	120-277V	>80	7W	950	240°	325°	136 lm/W	Yes	 
KT-LED12T8-36GC-8xx-D	3'	120-277V	>80	12W	1300	240°	325°	108 lm/W	N/A	
KT-LED11.5T8-48GC-8xx-D	4'	120-277V	>83	11.5W	1800	240°	325°	157 lm/W	Yes	
KT-LED12.5T8-48GC-8xx-D	4'	120-277V	>80	12.5W	1850	240°	325°	148 lm/W	Yes	
KT-LED15T8-48GC-8xx-D /G3	4'	120-277V	>83	15W	1900	240°	325°	127 lm/W	Yes	
KT-LED18.5T8-48GC-8xx-D	4'	120-277V	>83	18.5W	2500	240°	325°	135 lm/W	Yes	
KT-LED24T8-60GC-8xx-D	5'	120-277V	>83	24W	2500	240°	325°	104 lm/W	N/A	
KT-LED32T8-72GC-8xx-D	6'	120-277V	>80	32W	3400	240°	325°	106 lm/W	N/A	
KT-LED43T8-96GC-8xx-D	8' Single Pin	120-277V	>80	43W	5500	240°	325°	128 lm/W	N/A	
T8 PLASTIC/ALUMINUM CONSTRUCTION										
KT-LED36T8-96P-8xx-D	8' Single Pin	120-277V	>80	36W	4000	120°	180°	111 lm/W	N/A	
KT-LED54T8-96P-8xx-D /G2	8' HO	120-277V	>80	54W	5900	120°	180°	110 lm/W	N/A	

Catalog Number	Nominal Length	Input Voltage	CRI	Lamp Wattage	Lumens	Beam Angle	Light Spread	Efficacy	Meets DLC	Additional Approvals
HiCRI T8 SHATTERPROOF COATED GLASS CONSTRUCTION										
KT-LED15T8-48GC-9xx-D	4'	120-277V	>90	15W	1675	240°	325°	112 lm/W	No	 

Catalog Number	Nominal Length	Input Voltage	CRI	Lamp Wattage	Lumens	Beam Angle	Light Spread	Efficacy	Meets DLC	Additional Approvals
U-BEND T8 SHATTERPROOF COATED GLASS CONSTRUCTION										
KT-LED18T8-U6GC-8xx-D	6" U-Bend	120-277V	>80	18W	2150	220°	325°	119 lm/W	Yes	

DirectDrive Tubes listed meet DLC 4.0+ requirements, unless otherwise noted. DLC 3.0 tubes are available by special request.

*8xx and 9xx denote several color temperatures available. HiCRI T8 available in 4000K and 5000K only.

830	800 Series, 3000K	835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K	865	800 Series, 6500K, Not DLC Listed
------------	-------------------	------------	-------------------	------------	-------------------	------------	-------------------	------------	-----------------------------------

LINEAR LED TUBES

DIMMABLE DirectDrive T8 / ComboDrive



DIRECTDRIVE LED

LINE VOLTAGE T8 TUBES



Catalog Number	Construction	Nominal Length	Input Voltage	Dimming Type	CRI	Lamp Wattage	Lumens	Beam Angle	Light Spread	Efficacy	Additional Approvals
DIMMABLE T8											
KT-LED18T8-48GC-8xx-D-FDIM	Shatterproof Coated Glass	4'	120V	TRIAC	>80	18W	2000	240°	325°	111 lm/W	UL US, ETL Intertek
EXCLUSIVE TO KEYSTONE KT-LED18T8-48P-8xx-D-VDIM	Plastic Aluminum	4'	120-277V	0-10V	>80	18W	2100	120°	180°	117 lm/W	UL US

*8xx denotes several color temperatures available:

835 800 Series, 3500K **840** 800 Series, 4000K **850** 800 Series, 5000K



COMBODRIVE LED

PLUG & PLAY OR LINE VOLTAGE COMPATIBLE

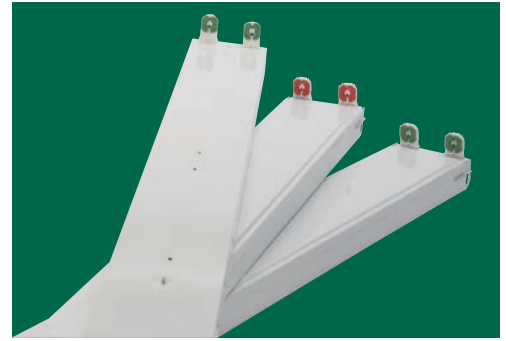
Catalog Number	Nominal Length	Lamp Wattage	Lumens	Instant Start Ballast Compatible Application						Line Voltage Application						
				System Wattage			Initial Lumens			Input Voltage	Lamp Wattage	Initial Lumens	Meets DLC	Additional Approvals		
				.78 BF	.88 BF	1.18 BF	.78 BF	.88 BF	1.18 BF							
T8 SHATTERPROOF COATED GLASS CONSTRUCTION												Also available in uncoated glass construction upon request.				
KT-LED9T8-24GC-8xx-X	2'	9W	1150	11.2W	11.5W	12.1W	1100	1170	1210	120-277V	9W	1170	No	UL LISTED, NSF		
KT-LED15T8-48GC-8xx-X	4'	15W	1800	16.2W	17.4W	18.5W	1620	1750	1880	120-277V	15W	1710	No	UL LISTED, NSF		

For all Keystone ComboDrive linear LED lamps, input voltage is ballast dependent and beam angle is 220°.

*8xx denotes several color temperatures available:

830 800 Series, 3000K **835** 800 Series, 3500K **840** 800 Series, 4000K **850** 800 Series, 5000K

LINEAR LED TUBES FIXTURES AND ACCESSORIES



LED TUBE STRIP FIXTURES

Catalog Number	Description	Application
KT-DDSLEDT8-4-2L	2-Lamp 4' LED Tube Ready Strip Fixture (Lamps Sold Separately)	Highbay, Lowbay, Warehouse, and General Lighting
KT-DDSLEDT8-8-4L	4-Lamp 8' LED Tube Ready Strip Fixture (Lamps Sold Separately)	Highbay, Lowbay, Warehouse, and General Lighting

LED TUBE HIGH BAY FIXTURES

Catalog Number	Description
KT-DDHBLEDT8-4-4L	4-Lamp 4' LED Tube Ready Highbay Fixture (Lamps Sold Separately)
KT-DDHBLEDT8-4-6L	6-Lamp 4' LED Tube Ready Highbay Fixture (Lamps Sold Separately)

8' STRIP READY KIT

Catalog Number	Description
KT-RKIT-SP-W-82-C4-4LED	4-Lamp 8' Strip LED Tube Ready Kit. Pre-Wired 4.25" Ballast Cover Kit for DirectDrive LED Tubes; Includes (2) 4' Ballast Covers, (1) Wiring Harness, (4) Additional Sockets, and (8) Tek Screws

NOTE: The products listed above are specifically designed for use with Keystone's Single Ended Wiring (Type B) DirectDrive LED tubes: 22W max per lamp

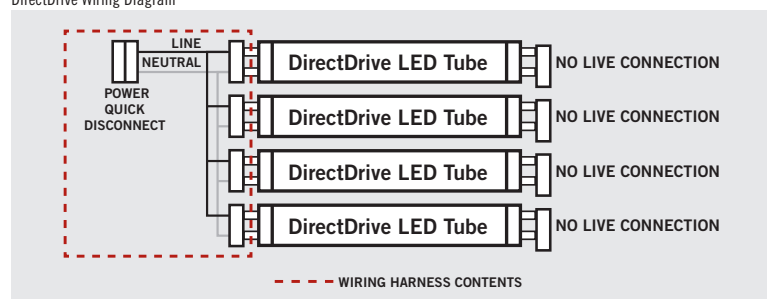
DirectDrive WIRING HARNESSES

Catalog Number	Description
KT-SOCKET-T8-U-T-2-W	2-Lamp Wiring Harness for LED Tubes; Includes (2) Pre-Wired Tall, Non-Shunted Sockets with Power Quick Disconnect
KT-SOCKET-T8-U-T-3-W	3-Lamp Wiring Harness for LED Tubes; Includes (3) Pre-Wired Tall, Non-Shunted Sockets with Power Quick Disconnect
KT-SOCKET-T8-U-T-4-W	4-Lamp Wiring Harness for LED Tubes; Includes (4) Pre-Wired Tall, Non-Shunted Sockets with Power Quick Disconnect
KT-SOCKET-T8-U-T-6-W	6-Lamp Wiring Harness for LED Tubes; Includes (6) Pre-Wired Tall, Non-Shunted Sockets with Power Quick Disconnect
KT-SOCKET-T8-U-S-2-W	2-Lamp Wiring Harness for LED Tubes; Includes (2) Pre-Wired Standard, Non-Shunted Sockets with Power Quick Disconnect
KT-SOCKET-T8-U-S-3-W	3-Lamp Wiring Harness for LED Tubes; Includes (3) Pre-Wired Standard, Non-Shunted Sockets with Power Quick Disconnect
KT-SOCKET-T8-U-S-4-W	4-Lamp Wiring Harness for LED Tubes; Includes (4) Pre-Wired Standard, Non-Shunted Sockets with Power Quick Disconnect
KT-SOCKET-T8-U-S-6-W	6-Lamp Wiring Harness for LED Tubes; Includes (6) Pre-Wired Standard, Non-Shunted Sockets with Power Quick Disconnect
KT-WH-FA8-2L	Wiring Harness for 8' Direct Drive LED Tubes

DirectDrive Wiring Harness with Power Quick Disconnect



DirectDrive Wiring Diagram



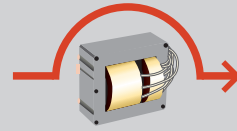
Individual sockets are available upon request.

HID REPLACEMENT LED LAMPS

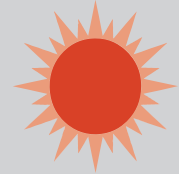
DirectDrive 360° VERTICAL LAMPS



BUILT-IN SURGE PROTECTION



BYPASS THE BALLAST
and connect the 120-277V line voltage directly to the sockets. No ballast or external driver is required.



50,000 HOUR LIFETIME

Catalog Number	Rated Lamp Wattage	Metal Halide Equivalent Wattage	Input Voltage	Base Type	Lumens	CRI	IP Rating	Efficacy	DLC QPL
KT-LED15HID-E26-8xx-D	15W	50-70W	120-277V	Medium E26	2000	>85	IP64	133 lm/W	N/A
KT-LED19HID-E26-8xx-D	19W	50-70W	120-277V	Medium E26	2400	>85	IP64	126 lm/W	N/A
KT-LED27HID-E26-8xx-D	27W	100W	120-277V	Medium E26	3830	>85	IP64	142 lm/W	N/A
KT-LED27HID-EX39-8xx-D	27W	100W	120-277V	Mogul EX39	3830	>85	IP64	142 lm/W	Yes
KT-LED36HID-E26-8xx-D	36W	150W	120-277V	Medium E26	5100	>85	IP64	142 lm/W	N/A
KT-LED36HID-EX39-8xx-D	36W	150W	120-277V	Mogul EX39	5100	>85	IP64	142 lm/W	Yes
KT-LED45HID-E26-8xx-D	45W	175W	120-277V	Medium E26	6350	>85	IP64	141 lm/W	N/A
KT-LED45HID-EX39-8xx-D	45W	175W	120-277V	Mogul EX39	6350	>85	IP64	141 lm/W	Yes
KT-LED54HID-EX39-8xx-D	54W	250W	120-277V	Mogul EX39	7660	>85	IP64	142 lm/W	Yes
KT-LED80HID-EX39-8xx-D	80W	320W	120-277V	Mogul EX39	11,300	>85	IP64	141 lm/W	Yes
KT-LED100HID-EX39-8xx-D	100W	400W	120-277V	Mogul EX39	14,100	>85	IP64	141 lm/W	Yes

* 8xx denotes several color temperatures available. 80W and 100W lamps are not available in 3000K.

830	800 Series, 3000K	840	800 Series, 4000K	850	800 Series, 5000K
------------	-------------------	------------	-------------------	------------	-------------------



With SmartCool technology, a thermal sensor in the lamp activates during extreme high temperature conditions. Power to the lamp is reduced by up to 20% to cool the lamp and maintain lamp life. Once the sensor reaches an acceptable temperature, the lamp gradually returns to full light output. Included in 54W, 80W, 100W and 110W DirectDrive HID LED lamps.

ACCESSORIES

Catalog Number	Description
KTSP-10KV	External Surge Protector; Input Voltage 120-277V; Max. Peak Current: 10KV; IP65 Rated
KT-ADAPTER-E39-E26	Socket Base Adapter Allowing an E26 Base Lamp to be Used in an E39 Socket

HID REPLACEMENT LED LAMPS

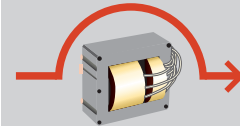
DirectDrive XPANDER 180° HORIZONTAL LAMPS



XPANDER



BUILT-IN SURGE PROTECTION



BYPASS THE BALLAST
and connect the 120-277V line voltage directly to the sockets. No ballast or external driver is required.



50,000 HOUR LIFETIME

PRODUCT FEATURES

- Replacement for Conventional Metal Halide Lamps in Canopy, Wall Pack, and Shoebox Fixtures
- Optimized for Horizontal Applications with Directional Light Output
- Environmentally Friendly: No Mercury Used
- Instant Startup
- Operating Temperature: -40°C/-40°F to 45°C/113°F in Enclosed Fixture
- Integral Driver, Eliminates the Need for External Driver or Ballast; Includes 4kV Surge Protection
- Integrated Heat Sink Quickly Dissipates Heat and Guides Water Intrusion Out of the Lamp

Catalog Number	Rated Lamp Wattage	Metal Halide Equivalent Wattage	Input Voltage	Base Type	Lumens	CRI	IP Rating	Efficacy
KT-LED27HID-H-EX39-8xx-D	27W	100/150W	120-277V	EX39 Rotatable	4,100	85	IP64	152 lm/W
KT-LED45HID-H-EX39-8xx-D	45W	175W	120-277V	EX39 Rotatable	6,400	85	IP64	142 lm/W
KT-LED80HID-H-EX39-8xx-D*	80W	250/320W	120-277V	EX39 Rotatable	10,000	85	IP64	125 lm/W
KT-LED110HID-H-EX39-8xx-D*	110W	400W	120-277V	EX39 Rotatable	14,000	85	IP64	127 lm/W

*only for use in canopy and shoebox fixtures

*8xx denotes several color temperatures available:

840 800 Series, 4000K 850 800 Series, 5000K

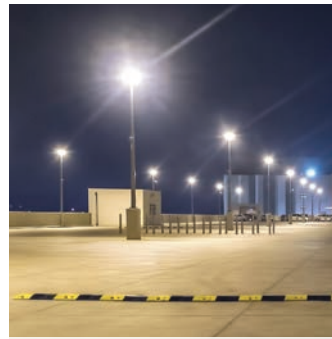
Typical Applications



Canopy



Wall Pack



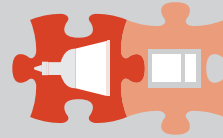
Shoebox

HID REPLACEMENT LED LAMPS

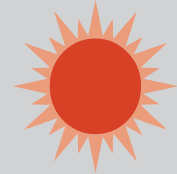
SmartDrive VERTICAL LAMPS



BUILT-IN SURGE PROTECTION



MAGNETIC HID BALLAST COMPATIBLE



50,000 HOUR LIFETIME

400W METAL HALIDE REPLACEMENT

Driven by 400W (M59) Ballast

Driven by 320W (M154) Ballast

Catalog Number	Supported Ballast Types	Lamp Wattage	Base Type	Orientation	Input Voltage	Lumens	System Wattage	Lumens	System Wattage
KT-LED130HID-V-EX39-8xx-S	400W (M59, M135), 320W (M154, M155)	130W	EX39	Vertical	Ballast Dependent	13,000	166W	11,000	138W

175W METAL HALIDE REPLACEMENT

Driven by 175W (M57) Ballast

Catalog Number	Supported Ballast Types	Lamp Wattage	Base Type	Orientation	Input Voltage	Lumens	System Wattage
KT-LED48HID-V-E26-8xx-S	175W (M57, M137, M152)	48W	E26	Vertical	Ballast Dependent	5,600	79W

* 8xx denotes several color temperatures available:

840	800 Series, 4000K	850	800 Series, 5000K
------------	-------------------	------------	-------------------

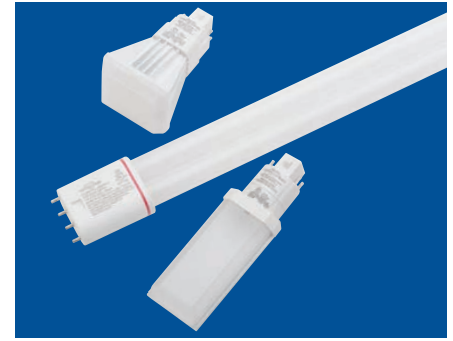
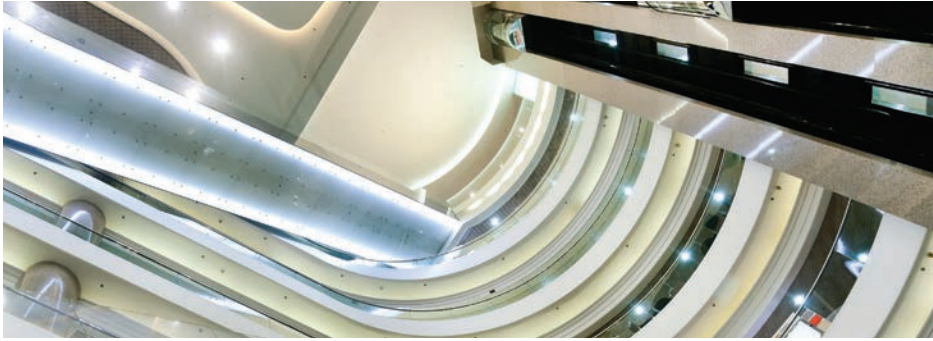


LAMP AND BALLAST KITS

Both of the items above are also available with a corresponding Keystone ballast. When installed together, the lamp and ballast are eligible for a 5 year system warranty. To order, add -PKIT to the part number. Example: KT-LED-130HID-V-EX39-840-S-PKIT


5 YEAR SYSTEM WARRANTY FOR LAMP AND BALLAST KITS

Keystone offers the best system warranty in the industry. When installing Keystone SmartDrive HID LED replacement lamps with Keystone ballasts, we extend the ballast warranty by 3 years. You benefit from a 5 year total system warranty.




SMARTDRIVE LED

PLUG & PLAY WITH CFL BALLASTS

Catalog Number	Input Voltage	Base	Orientation	CRI	Lamp Wattage	System Wattage	Lumens	Additional Approvals
4-PIN 26W, 32W, OR 42W CFL LAMP REPLACEMENT								
KT-LED114P-H-8xx-S	Ballast Dependent	G24q	Horizontal	>80	11W	13W	1000	
KT-LED114P-V-8xx-S	Ballast Dependent	G24q	Vertical	>80	11W	13W	1000	
KT-LED114P-EV-8xx-S	Ballast Dependent	G24q	Extended Vertical	>80	11W	13W	1000	


DIRECTDRIVE LED

CONNECT TO LINE VOLTAGE

Catalog Number	Input Voltage	Base	Orientation	CRI	Lamp Wattage	Lumens	Additional Approvals
2-PIN 13W CFL LAMP REPLACEMENT							
KT-LED62P-H-8xx-D	120-277V	GX23	Horizontal	>80	6W	500	N/A
2-PIN 26W, 32W, OR 42W CFL LAMP REPLACEMENT							
KT-LED82P-H-8xx-D	120-277V	G24d	Horizontal	≥83	8W	900	
KT-LED82P-V-8xx-D	120-277V	G24d	Vertical	≥83	8W	900	
KT-LED82P-EV-8xx-D	120-277V	G24d	Extended Vertical	≥83	8W	900	

DIRECTDRIVE LED

LINE VOLTAGE PLL LAMPS

Catalog Number	Input Voltage	CRI	Bare Lamp Wattage	Nominal Lamp Lumens	Beam Angle	Nominal Bare Lamp Efficacy	Power Factor	Max. THD	Additional Approvals
2G11 PLL LAMP REPLACEMENT									
KT-LED17PLL-22G-8xx-D	120-277V	>80	17W	2200	220°	129 lm/W	>0.9	20%	

* 8xx denotes several color temperatures available. PLL lamps available in 3500K, 4000K, and 5000K only.

827	800 Series, 2700K	830	800 Series, 3000K	835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K
------------	-------------------	------------	-------------------	------------	-------------------	------------	-------------------	------------	-------------------

LED ACCESSORIES

SENSORS AND SOCKETS



DUAL TECHNOLOGY HIGH BAY OCCUPANCY SENSORS

Catalog Number	Frequency	Maximum Load Rating	Power Consumption
HBE-PIR-120/277/347	50/60Hz	800VA @ 120VAC, 1200VA @ 277VAC, 1500VA @ 347VAC	0.2W @ 120VAC, 1.0W @ 277VAC, 2.0W @ 347VAC

ACCESSORIES FOR HIGH BAY OCCUPANCY SENSORS

Catalog Number	Description
HBE-EXBT	Extender Bracket for High Bay Motion Sensor; Lowers Sensor for Optimum Field of View
HBE-LENS-AISLE	Interchangeable Lens - Aisle Way Fresnel Pattern
HBE-LENS-360	Interchangeable Lens - 360° View Fresnel Pattern

WET LOCATION OCCUPANCY SENSORS FOR OUTDOOR USE

Catalog Number	Frequency	Maximum Load Rating	Power Consumption	Features
HBE-PIR-120-277-IP65	50/60Hz	800VA @ 120VAC, 1200VA @ 208/240/277VAC	0.07W @ 120VAC, 0.39W @ 277VAC	IP65 Rated
HBE-PIR-347/480-IP65	50/60Hz	1500VA @ 347VAC, 2000VA @ 480VAC	0.19W @ 347VAC, 0.37W @ 480VAC	IP65 Rated

FEATURES

- Simple Adjustable Controls for Time Delay and Day Lighting Control
- Passive Infrared (PIR) Sensing Technology
- Ideal for Fluorescent or LED High Bay Fixtures in Warehouses, Manufacturing Facilities, and Other High Ceiling Applications
- LED Indicator
- No Minimum Load Requirements
- Interchangeable Lenses including Aisle Pattern View
- Low Bay Lens Included with Wet Location Sensor Only
- Embedded Relay (No External Box Required)

PERFORMANCE

- Mounting Height: Up to 40' Maximum
- Operating Temperature Range: 14°F-160°F for Standard High Bay Sensors; -4°F-160°F for Wet Location Sensors
- Storage Temperature Range: 14°F-160°F for Standard High Bay Sensors; -4°F-160°F for Wet Location Sensors

SOCKETS

Catalog Number	Description
KT-SOCKET-RDC-PE	Recessed Double Contact Socket with Plunger End for HO Lamps
KT-SOCKET-RDC-SE	Recessed Double Contact Socket with Stationary End for HO Lamps
KT-SOCKET-SL-PE	Single Pin Slimline Socket with Plunger End
KT-SOCKET-SL-SE	Single Pin Slimline Socket with Stationary End
KT-SOCKET-T8-U-T	Non-Shunted Tall T8 Socket with Push-Through with Nub, Approximately 30mm
KT-SOCKET-T8-U-S	Non-Shunted Standard T8 Socket with Push-Through with Nub, Approximately 23mm
KT-SOCKET-T8-U-ST	Slide-On Socket for DirectDrive U-Bend Lamps



PANLEGE

LED PANEL LIGHTS

PRODUCT FEATURES

- Low Profile Architectural Grade Design; Fits Standard T-Grid Ceilings
- Suitable for Surface or Suspension Mount with Optional Accessories
- High Quality Laser Etched PMMA Resin Light Guide Plate Offers Optimal Light Diffusion with No Risk of Yellowing Over Product Lifetime
- Powered by Keystone 0-10V Dimming LED Driver with Built-In Junction Box
- Over 50% Energy Savings Compared to Traditional Fluorescent Troffers
- LED Color Binning within 4 SDCM Ensures Exceptional Color Consistency Between All Panels

Catalog Number	Power	Lumens	Efficacy	CRI	Input Voltage	Dimmable	Lifetime	DLC Category*
2'x2' LED PANEL LIGHTS								
KT-PLED30-22-8xx-VDIM-P	30W	3900	130 lm/W	82	120-277V	Yes	60,000 Hours	Premium
KT-PLED40-22-8xx-VDIM	40W	4150	104 lm/W	82	120-277V	Yes	60,000 Hours	Standard
2'x4' LED PANEL LIGHTS								
KT-PLED40-24-8xx-VDIM-P	40W	5100	128 lm/W	82	120-277V	Yes	60,000 Hours	Premium
KT-PLED50-24-8xx-VDIM	50W	5300	106 lm/W	82	120-277V	Yes	60,000 Hours	Standard
1'x4' LED PANEL LIGHTS								
KT-PLED40-14-8xx-VDIM-P	40W	5050	126 lm/W	82	120-277V	Yes	60,000 Hours	Premium
KT-PLED40-14-8xx-VDIM	40W	4150	104 lm/W	82	120-277V	Yes	60,000 Hours	Standard

*DLC Listing is pending

*8xx denotes several color temperatures available:

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K
------------	-------------------	------------	-------------------	------------	-------------------

ACCESSORIES

Catalog Number	Description
KT-PLED-CABLE-KIT	Cable Hanging Kit for LED Panel Lights (Includes 3 Cable Sets)
KT-PLED-SM-22-KIT	Surface Mount Kit for (1) 2x2 LED Panel Light
KT-PLED-SM-14-KIT	Surface Mount Kit for (1) 1x4 LED Panel Light
KT-PLED-SM-24-KIT	Surface Mount Kit for (1) 2x4 LED Panel Light
KT-PLED-EM-BR-KIT	Bracket Kit for Mounting Emergency LED Backup to LED Panel Lights

EMERGENCY LED DRIVERS

for PanelEdge

Catalog Number	Wire Type	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			LED Module Included
		Input Voltage	Power Factor	Max. Current	Output Power	Rated Output Current	Output Voltage	
KT-EMRG-LED-5-500-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20~54Vdc	No
KT-EMRG-LED-12-1200-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20~54Vdc	No

COMPLETE LED FIXTURES

TEMPORARY LED HIGH BAY FIXTURES



PRODUCT FEATURES

- 50,000 Hour Lifetime
- Frosted Lens to Reduce Glare
- Includes a 3' Cord and Clip for Maximum Versatility When Hanging the Fixture
- Omni-Directional Light Distribution
- Efficacy: 115 lm/W
- 6KV Surge Protection
- Strong, Durable Construction
- Suitable for Construction Areas, Outdoor Activity Lighting
- IP64 Rated
- Lightweight
- Isolated Driver for Better Heat Dissipation
- Driver with Heat Sink Silicone is Waterproof, Dust-Proof, and Anti-Mosquito
- Operating Temperature: -40°C/-40°F-60°C/140°F

Catalog Number	Power Consumption	CRI	Input Voltage	Color Temperature	Total Lumens	HID Equivalent
KT-TFLED60-850	60W	≥80	120V	5000K	7,000	175W
KT-TFLED100-850	100W	≥80	120V	5000K	11,500	400W



SHOP LIGHT

PRODUCT FEATURES

- Ideal for Indoor Applications in Place of Fluorescent Shop Lights, Surface-Mount, and/or Strip Fixtures
- Installs in Minutes (Mounting Hardware Included)
- 60” Power Cord
- On-Off Pull Chain
- 48” White Plastic Body with Metal Backing
- Fully Assembled

Catalog Number	Nominal Length	Input Voltage	Power Consumption	Color Temperature	Lumen Output	CRI
KT-SHLED23-48-840	4'	120V	23W	4000K	2600	>80
KT-SHLED40-48-840	4'	120V	40W	4000K	4200	>80

EMERGENCY BACK-UP SOLUTIONS

LED EMERGENCY BACK-UP



SMART//SAFE

LED EMERGENCY BACK-UP



2017
AWARD
WINNER
NAIAD
Best Overall
Product

LED EMERGENCY BACK-UP KIT

INCLUDES EMERGENCY LED DRIVER, BATTERY, AND LED MODULE

The LED emergency back-up kit enables emergency lighting solutions to be incorporated into a variety of lighting fixtures including direct-wire LED tube fixtures, fluorescent fixtures and LED fixtures.

- Battery is separate from the driver
- Battery pack has a metal shroud so it can be mounted remotely from the fixture

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			LED Module Included
	Input Voltage	Power Factor	Max. Current	Max. Output Power	Rated Output Current	Output Voltage	
KT-EMRG-LED-5-500-K1	120-277Vac	≥0.5	0.051A @ 120V	5W	400mA-100mA	12-41Vdc	Yes
KT-EMRG-LED-12-1200-K1	120-277Vac	≥0.5	0.051A @ 120V	12W	1000mA-200mA	12-41Vdc	Yes

1 PIECE ENCLOSED LED EMERGENCY BACK-UP

The LED emergency back-up enables emergency lighting solutions to be incorporated into a variety of new and existing LED fixtures. Simply install the unit either directly into the fixture or via remote mounting, tying into both the existing AC driver and LED module(s).

- Emergency driver and battery are enclosed in a metal housing
- Optional flex cable(s) allows for a variety of remote mounting options

Catalog Number	Wire Type	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			LED Module Included
		Input Voltage	Power Factor	Max. Current	Output Power	Rated Output Current	Output Voltage	
KT-EMRG-LED-5-500-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20-54Vdc	No
KT-EMRG-LED-12-1200-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20-54Vdc	No

FEATURES AND BENEFITS

- Adds emergency lighting capability to multiple fixture types
- Remote mounting means no interference with the sleek design of LED architectural fixtures
- 2-in-1 LED test switch and indicator light provides instant reassurance that the system is working
- Evaluated to UL 924 Requirements
- Reliable operation with minimum 90 minute duration
- UL Classified for field installation



LINEAR FLUORESCENT EMERGENCY BALLASTS

No. of Lamps in Fixture	Catalog Number	Input Voltage	Light Output	Illumination Time	Battery
T8 & T12 Linear					
1-4	KT-EMRG-500	120/277V, 60 Hz	500 Lumens	90 Minutes	NiCd
	KT-EMRG-700	120/277V, 60 Hz	700 Lumens	90 Minutes	NiCd
	KT-EMRG-1400	120/277V, 60 Hz	1400 Lumens	90 Minutes	NiCd
T8 & T12 Linear Slim Can					
1-4	KT-EMRG-500-SL	120/277V, 60 Hz	500 Lumens	90 Minutes	NiCd
	KT-EMRG-700-SL	120/277V, 60 Hz	700 Lumens	90 Minutes	NiCd
	KT-EMRG-1400-SL	120/277V, 60 Hz	1400 Lumens	90 Minutes	NiCd
T5 Linear					
1-4	KT-EMRG-500-T5	120/277V, 60 Hz	500 Lumens	90 Minutes	NiCd
	KT-EMRG-800-T5	120/277V, 60 Hz	800 Lumens	90 Minutes	NiCd
	KT-EMRG-1300-T5*	120/277V, 60 Hz	1300 Lumens	90 Minutes	NiCd

*Compatible for use with Keystone 12W, 14W, or 17W SmartDrive LED Tubes

COMPACT FLUORESCENT EMERGENCY BALLASTS

No. of Lamps in Fixture	Catalog Number	Lamp Type	Input Voltage	Light Output	Illumination Time	Battery
1-4	KT-EMRG-650-CFL2	2-Pin CFL	120/277V, 60Hz	650 Lumens	90 Minutes	NiCd
	KT-EMRG-750-CFL4	4-Pin CFL	120/277V, 60Hz	750 Lumens	90 Minutes	NiCd

LINEAR LED MODULE AND DRIVER KITS



Each Kit includes (1) 0-10V Dimmable LED Driver, (2) LED Modules, Mounting Hardware, and Accessories.

2x2, 4000 LUMEN LINEAR LED MODULE AND DRIVER KIT

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Drive Current	Drive Current per Module	Total System Lumens	Total Module Power	Module Efficacy	Driver Efficiency	Total System Power	Total System Efficacy
120-277V	KT-RKIT-22-4000-8xx-VDIM	2	1100mA	550mA	4000	30W	135 lm/W	82%	36W	111 lm/W

2x4, 4000 LUMEN LINEAR LED MODULE AND DRIVER KIT

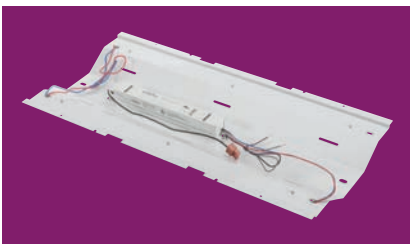
Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Drive Current	Drive Current per Module	Total System Lumens	Total Module Power	Module Efficacy	Driver Efficiency	Total System Power	Total System Efficacy
120-277V	KT-RKIT-24-4000-8xx-VDIM	2	1100mA	550mA	4000	30W	135 lm/W	82%	36W	111 lm/W

2x4, 5000 LUMEN LINEAR LED MODULE AND DRIVER KIT

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Drive Current	Drive Current per Module	Total System Lumens	Total Module Power	Module Efficacy	Driver Efficiency	Total System Power	Total System Efficacy
120-277V	KT-RKIT-24-5000-8xx-VDIM	2	1100mA	550mA	5000	36W	138 lm/W	82%	44W	113 lm/W

*8xx denotes several color temperatures available:

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K
------------	-------------------	------------	-------------------	------------	-------------------



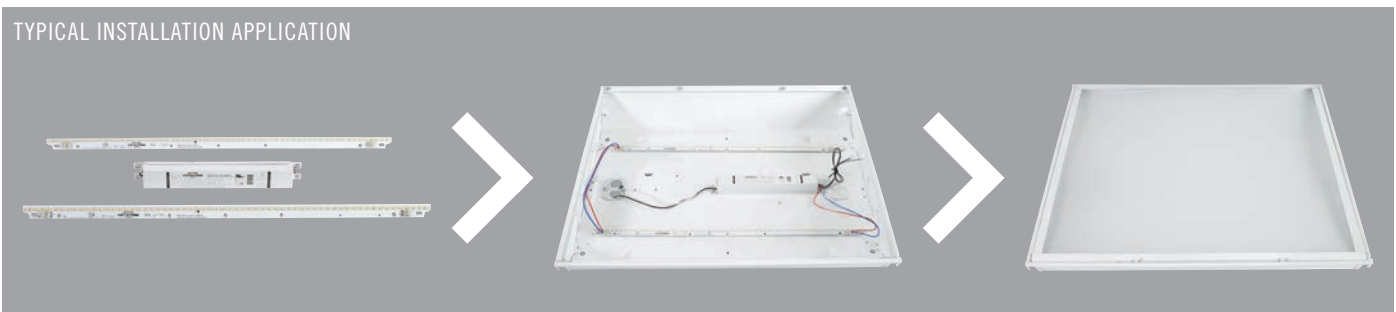
LINEAR TROFFER PAN LED KITS

All of the items above are also available pre-installed in a metal troffer pan. To order, add -TP to the part number. Example: KT-RKIT-TP-22-4000-835-VDIM

MAGNETS FOR TROFFER PAN LED KITS (OPTIONAL)

(2) Reusable High-Strength Magnets to Aid in the Installation of the Future Fit Troffer Pan
Catalog Number: KT-RKIT-MAG-KIT

TYPICAL INSTALLATION APPLICATION





Each Pre-Assembled Kit includes (1) Dimmable LED Driver, (1) LED Module, (1) Metal Pan, Mounting Hardware, and Accessories.

8", 1600 LUMEN CIRCULAR (Phase Control Dimming)

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Drive Current	Drive Current per Module	Total System Lumens	Total Module Power	Module Efficacy	Driver Efficiency	Total System Power	Total System Efficacy
120V	KT-RKIT-CP-8-1600-8xx-FDIM	1	560mA	560mA	1800	13W	138 lm/W	80%	16.2W	111 lm/W

8", 1600 LUMEN CIRCULAR (0-10V Dimming)

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Drive Current	Drive Current per Module	Total System Lumens	Total Module Power	Module Efficacy	Driver Efficiency	Total System Power	Total System Efficacy
120-277V	KT-RKIT-CP-8-1600-8xx-VDIM	1	560mA	560mA	1800	13W	138 lm/W	80%	16.2W	111 lm/W

8", 2200 LUMEN CIRCULAR (Phase Control Dimming)

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Drive Current	Drive Current per Module	Total System Lumens	Total Module Power	Module Efficacy	Driver Efficiency	Total System Power	Total System Efficacy
120V	KT-RKIT-CP-8-2200-8xx-FDIM	1	560mA	560mA	2240	16.3W	137 lm/W	80%	20.4W	109 lm/W

8", 2200 LUMEN CIRCULAR (0-10V Dimming)

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Drive Current	Drive Current per Module	Total System Lumens	Total Module Power	Module Efficacy	Driver Efficiency	Total System Power	Total System Efficacy
120-277V	KT-RKIT-CP-8-2200-8xx-VDIM	1	560mA	560mA	2240	16.3W	137 lm/W	80%	20.4W	109 lm/W

*8xx denotes several color temperatures available:

830	800 Series, 3000K	840	800 Series, 4000K	850	800 Series, 5000K
------------	-------------------	------------	-------------------	------------	-------------------

TYPICAL INSTALLATION APPLICATION



RECTANGULAR LED KITS



Each Pre-Assembled Kit includes (1) LED Driver, (2) LED Modules, (1) Metal Pan, Mounting Hardware, and Accessories.

3"x6", 800 LUMEN RECTANGULAR

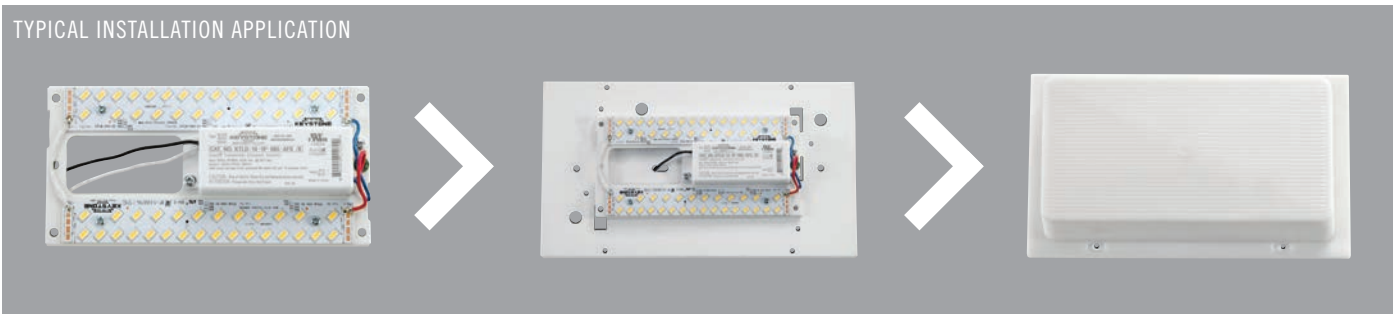
Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Drive Current	Drive Current per Module	Total Lumens per Module	Total System Lumens	Total Module Power	Module Efficacy	Driver Efficiency	Total System Power	Total System Efficacy
120V	KT-RKIT-RP-6-800-8xx	2	560mA	560mA	435	870	7W	124 lm/W	82%	8.5W	102 lm/W

3"x6", 1600 LUMEN RECTANGULAR

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Drive Current	Drive Current per Module	Total Lumens per Module	Total System Lumens	Total Module Power	Module Efficacy	Driver Efficiency	Total System Power	Total System Efficacy
120V	KT-RKIT-RP-6-1600-8xx	2	560mA	560mA	825	1650	14W	118 lm/W	82%	17W	97 lm/W

*8xx denotes several color temperatures available:

830	800 Series, 3000K	840	800 Series, 4000K	850	800 Series, 5000K
------------	-------------------	------------	-------------------	------------	-------------------





Each Pre-Assembled Kit includes (1) Phase Control Dimmable LED Driver, (1) LED Module, (1) Metal Pan, Mounting Hardware, and Accessories.

8", 650 LUMEN WALL SCONCE (Phase Control Dimming)

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Drive Current	Drive Current per Module	Total Lumens per Module	Total System Lumens	Total Module Power	Module Efficacy	Driver Efficiency	Total System Power	Total System Efficacy
120V	KT-RKIT-HCP-8-650-8xx-FDIM	1	350mA	350mA	720	720	5.5W	130 lm/W	80%	6.9W	104 lm/W

8", 1150 LUMEN WALL SCONCE (Phase Control Dimming)

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Drive Current	Drive Current per Module	Total Lumens per Module	Total System Lumens	Total Module Power	Module Efficacy	Driver Efficiency	Total System Power	Total System Efficacy
120V	KT-RKIT-HCP-8-1150-8xx-FDIM	1	350mA	350mA	1180	1180	8.5W	138 lm/W	80%	10.6W	111 lm/W

*8xx denotes several color temperatures available:

830	800 Series, 3000K	840	800 Series, 4000K	850	800 Series, 5000K
------------	-------------------	------------	-------------------	------------	-------------------

TYPICAL INSTALLATION APPLICATION





CONSTANT CURRENT

Wattage Family	Catalog Number	Rated Output Current	Output Voltage	Output Power	Input Voltage	Dimming
10W	KTLD-10-1N-350-F3	350mA	7.5-30Vdc	10W	120Vac	N/A
	KTLD-10-1N-300-F3	300mA	6-33Vdc	10W	120Vac	N/A
	KTLD-10-1N-380-F3	380mA	6.5-28Vdc	10W	120Vac	N/A
	KTLD-10-1P-380-LDIM-AF1	380mA	13-27Vdc	10W	120Vac	Local
12W	KTLD-12-1-350-FDIM-F5	350mA	17-34Vdc	12W	120Vac	Phase Control
	KTLD-12-1-500-FDIM-F5	500mA	12-24Vdc	12W	120Vac	Phase Control
	KTLD-12-1-700-FDIM-F5	700mA	8-17Vdc	12W	120Vac	Phase Control
	KTLD-12-1-350-FDIM-AF1	350mA	6-32Vdc	12W	120Vac	Phase Control
	KTLD-12-1-380-FDIM-AF1	380mA	5-32Vdc	12W	120Vac	Phase Control
	KTLD-12-1-700-FDIM-AF1	700mA	5-17Vdc	12W	120Vac	Phase Control
14W	KTLD-14-1-350-FDIM-AF1	350mA	10-40Vdc	14W	120Vac	Phase Control
22W	KTLD-22-1-350-FDIM-AK1	350mA	21-63Vdc	22W	120Vac	Phase Control
	KTLD-22-1-700-FDIM-AK1	700mA	10-32Vdc	22W	120Vac	Phase Control
	KTLD-22-UV-500-VDIM-L7	500mA	22-44Vdc	22W	120-277Vac	0-10V
	KTLD-22-UV-600-VDIM-L7	600mA	18-36Vdc	22W	120-277Vac	0-10V
	KTLD-22-UV-700-AK1	700mA	10-32Vdc	22W	120-277Vac	N/A
23W	KTLD-23-UV-830-VDIM-L7	830mA	14-28Vdc	23W	120-277Vac	0-10V
25W	KTLD-25-UV-700-VDIM-L9	700mA	18-36Vdc	25W	120-277Vac	0-10V
36W	KTLD-36-UV-900-VDIM-L2	900mA	18-36Vdc	36W	120-277Vac	0-10V
	KTLD-36-UV-1500-VDIM-L2	1500mA	12-24Vdc	36W	120-277Vac	0-10V
40W	KTLD-40-UV-1100-VDIM-L2	1100mA	18-36Vdc	40W	120-277Vac	0-10V
	KTLD-40-UV-1100-VDIM-L9	1100mA	18-36Vdc	40W	120-277Vac	0-10V
50W	KTLD-50-UV-2X500-VDIM-L5	2x 500mA (Dual Channel)	25-50Vdc	50W	120-277Vac	0-10V
	KTLD-50-UV-2X700-VDIM-L5	2x 700mA (Dual Channel)	18-36Vdc	50W	120-277Vac	0-10V
60W	KTLD-60-UV-1600-VDIM-W2	1600mA	18-37.5Vdc	60W	120-277Vac	0-10V
72W	KTLD-72-UV-2X1000-VDIM-L5	2x 1000mA (Dual Channel)	18-36Vdc	72W	120-277Vac	0-10V
75W	KTLD-75-UV-1450-VDIM-L5	1450mA	27-51Vdc	75W	120-277Vac	0-10V
100W	KTLD-100-UV-1750-VDIM-L5	1750mA	29-57Vdc	100W	120-277Vac	0-10V
	KTLD-100-UV-4X500-VDIM-L18	4x 500mA (4 Channel)	25-50Vdc	100W	120-277Vac	0-10V

We make LED easy. From simple explanations to special design requests, call us today for any LED questions. For a complete listing of our LED drivers, contact Keystone or visit our website at KeystoneTech.com.

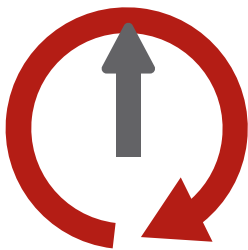
CONSTANT VOLTAGE

Wattage Family	Catalog Number	Rated Output Voltage	Max. Power	Max. Current	Input Voltage	SAM Qualified*
10W	KTLD-10-1N-12V-F3	12Vdc	10W	0.83A	120Vac	Yes
24W	KTLD-24-1-12V-AK1	12Vdc	24W	2.00A	120Vac	Yes
	KTLD-24-1-24V-AK1	24Vdc	24W	1.00A	120Vac	Yes
	KTLD-24-UV-12V-AK1	12Vdc	24W	2.00A	120-277Vac	Yes
	KTLD-24-UV-24V-AK1	24Vdc	24W	1.00A	120-277Vac	N/A
60W	KTLD-60-1-12V	12Vdc	60W	5.00A	120Vac	Yes
	KTLD-60-1N-12V-L2	12Vdc	60W	5.00A	120Vac	Yes
	KTLD-60-1-24V	24Vdc	60W	2.50A	120Vac	Yes
	KTLD-60-UV-12V	12Vdc	60W	5.00A	120-277Vac	Yes
	KTLD-60-UV-12V-67-AP4	12Vdc	60W	5.00A	120-277Vac	Yes
	KTLD-60-UV-12V-VDIM-L5	12Vdc	60W	5.00A	120-277Vac	Yes
	KTLD-60-UV-24V	24Vdc	60W	2.50A	120-277Vac	Yes
80W	KTLD-80-1-12V	12Vdc	80W	6.60A	120Vac	Yes
	KTLD-80-1-24V	24Vdc	80W	3.30A	120Vac	Yes
	KTLD-80-UV-12V	12Vdc	80W	6.70A	120-277Vac	N/A
	KTLD-80-UV-24V	24Vdc	80W	3.30A	120-277Vac	N/A
100W	KTLD-100-UV-12V	12Vdc	100W	8.00A	120-277Vac	Yes
	KTLD-100-UV-24V	24Vdc	100W	4.00A	120-277Vac	Yes
	KTLD-100-UV-24V-67-AP4	24Vdc	100W	4.00A	120-277Vac	N/A
120W	KTLD-120-UV-12V-L10	12Vdc	120W (2x60W Channels)	5.00A	120-277Vac	Yes

*Sign Component Manual (SAM) - SAM is a directory governed by UL that lists all components that have been tested and certified under the UL standard for electric signs. It is updated quarterly and contains all of the components associated with the manufacturing of electric signs, including LED power supplies. For more information, visit www.ul.com.

SPEED DIAL PROGRAMMABLE CONSTANT CURRENT LED DRIVER

SPEEDDIAL
PROGRAMMABLE DRIVERS



NO COMPUTERS. NO MISTAKES. NO HASSLES.

Introducing the easiest programmable constant current LED driver on the market. With just the simple twist of Keystone's unique SpeedDial, the LED driver is programmed to your desired output current in less than a second. Reduce inventory SKUs, increase productivity, gain performance flexibility... all with Keystone's proprietary SpeedDial LED drivers.

FEATURES AND BENEFITS

- **Slim Form Factor** - Ideal for narrow channels and slender fixtures.
- **Incredibly Easy Adjustability** - Just twist the SpeedDial with a standard screwdriver to the desired setting. The SpeedDial clicks right into place.
- **Reduced Inventory** - Utilize a single SKU for several output current settings.
- **High Efficiency** - Keystone's expertise in LED driver design targets maximum efficiencies at all current settings.
- **0-10V Dimming** - Uncompromised dimming performance for any 0-10V dimming system.



Catalog Number	INPUT CHARACTERISTICS				OUTPUT CHARACTERISTICS			FEATURES
	Input Voltage	Input Power	Power Factor	Max. Current	Max. Output Power	Rated Output Current	Output Voltage	Efficiency
KTLD-44-UV-SD700-1200-VDIM-L20	120-277Vac	52W	>0.9	0.48A @ 120V 0.22A @ 277V	44W	700, 800, 900, 1000, 1100, or 1200 mA	18-36Vdc	84% (at 1200mA)

FLUORESCENT LAMPS



T8 LINEAR

Nominal Wattage	Nominal Length	Catalog Number	Case Quantity	CRI	Initial Lumens	Mean Lumens	Rated Average Life		Lumen Maintenance	Additional Approvals
							3-hr/Start	12-hr/Start		
High Performance Linear T8 Lamps (Medium Bi-Pin, G13 Base)										
17W	24"	KTL-F17T8-8xx-HP	25	85	1380	1300	30,000 Hours	36,000 Hours	94%	N/A
25W	36"	KTL-F25T8-8xx-HP	25	85	2275	2140	30,000 Hours	36,000 Hours	94%	
25W	48"	KTL-F25T8ES-8xx-HP	25	85	2500	2350	30,000 Hours	36,000 Hours	94%	
28W	48"	KTL-F28T8ES-8xx-HP	25	85	2725	2560	30,000 Hours	36,000 Hours	94%	CEE Qualified
32W	48"	KTL-F32T8-8xx-HP	25	85	3100	2915	30,000 Hours	36,000 Hours	94%	
32W	48"	KTL-F32T8-8xx-XHP	25	85	3200	3010	30,000 Hours	36,000 Hours	94%	
32W	48"	KTL-F32T8-8xx-XL	25	85	3100	2915	42,000 Hours	48,000 Hours	94%	

T5 LINEAR

Nominal Wattage	Nominal Length	Catalog Number	Case Quantity	CRI	Initial Lumens	Mean Lumens	Rated Average Life		Lumen Maintenance
							3-hr/Start	12-hr/Start	
High Efficiency Linear T5 Lamps (Miniature Bi-Pin, G5 Base)									
14W	24"	KTL-F14T5-8xx-HE	25	85	1350	1265	24,000 Hours	30,000 Hours	94%
21W	36"	KTL-F21T5-8xx-HE	25	85	2200	2060	24,000 Hours	30,000 Hours	94%
28W	48"	KTL-F28T5-8xx-HE	25	85	2900	2725	24,000 Hours	30,000 Hours	94%
High Output Linear T5 Lamps (Miniature Bi-Pin, G5 Base)									
49W	48"	KTL-F49T5-8xx-HO	25	85	4900	4600	24,000 Hours	30,000 Hours	94%
54W	48"	KTL-F54T5-8xx-HO	25	85	5000	4700	24,000 Hours	30,000 Hours	94%

T12 LINEAR

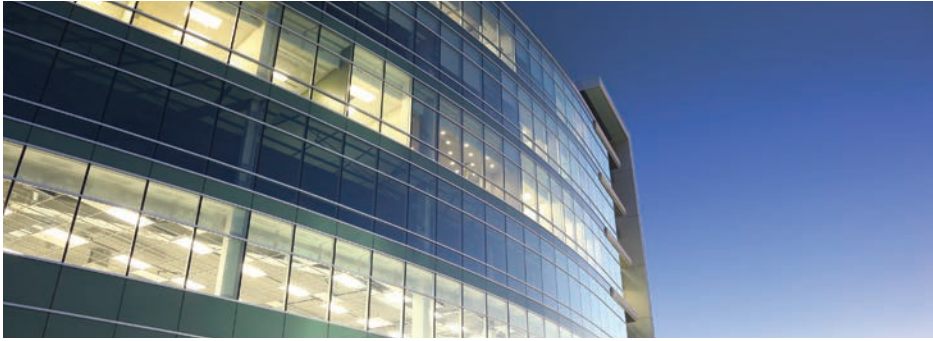
Nominal Wattage	Nominal Length	Catalog Number	Case Quantity	Color Temperature	CRI	Initial Lumens	Mean Lumens	Rated Average Life		Lumen Maintenance
								3-hr/Start	12-hr/Start	
2012 DOE Compliant Linear T12 Lamps (Medium Bi-Pin, G13 Base)										
40W	48"	KTL-F40T12-841-CWX	30	4100K	89	2500	2250	24,000 Hours	30,000 Hours	90%

T9 CIRCULAR

Nominal Wattage	Diameter	Catalog Number	Case Quantity	Color Temperature	CRI	Initial Lumens	Mean Lumens	Rated Average Life	Lumen Maintenance
								(3-hr/Start)	
Circular T9 Lamps (4-Pin, G10q Base)									
22W	8"	KTL-FC8T9-CW	12	4100K	60	1120	920	10,000 Hours	82%
22W	8"	KTL-FC8T9-DL	12	6500K	76	980	805	10,000 Hours	82%
32W	12"	KTL-FC12T9-CW	12	4100K	60	1930	1582	10,000 Hours	82%
32W	12"	KTL-FC12T9-DL	12	6500K	76	1675	1373	10,000 Hours	82%
40W	16"	KTL-FC16T9-CW	12	4100K	60	2950	2420	10,000 Hours	82%
40W	16"	KTL-FC16T9-DL	12	6500K	76	2450	2010	10,000 Hours	82%

* 8xx denotes several color temperatures available:

835	800 Series, 3500K	841	800 Series, 4100K	850	800 Series, 5000K	865	800 Series, 6500K
------------	-------------------	------------	-------------------	------------	-------------------	------------	-------------------



T12

Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Description
F20T12	1	120V	KTEB-120-1-TP-EMI	3 Years	1 Lite F20T12, FCC Class B, Normal Power Factor
	2	120V	KTEB-220-1-TP-EMI	3 Years	2 Lite F20T12, FCC Class B, Normal Power Factor
F40T12	1	120V	KTEB-140-1-TP-EMI	3 Years	1 Lite F40T12, FCC Class B, Normal Power Factor
	2	120V	KTEB-240-1-TP-PIC	3 Years	2 Lite F40T12, F40T12ES, and F34T12 High Power Factor
		120-277V	KTEB-240-UV-TP-PIC	3 Years	2 Lite F40T12, F40T12ES, and F34T12 High Power Factor
F96T12	2	120V	KTEB-275-1-TP-PIC-SL	3 Years	1 or 2 Lite F96T12 and F96T12ES, 9" Case
		120-277V	KTEB-275-UV-TP-PIC	3 Years	1 or 2 Lite F96T12 and F96T12ES
			KTEB-275-UV-TP-PIC-SL	3 Years	1 or 2 Lite F96T12 and F96T12ES, 9" Case
F96T12HO	2	120V	KTEB-2110-1-TP-PIC	3 Years	1 or 2 Lite F96T12HO and F96T12HOES
		120-277V	KTEB-2110-UV-TP-PIC	3 Years	1 or 2 Lite F96T12HO and F96T12HOES

T8 INSTANT START

Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Light Output	Description
F17T8 F25T8 F32T8*	2	120-277V	KTEB-232-UV-IS-L-P	5 Years	Low	1 or 2 Lite F17/25/32 T8, Reduced Output
			KTEB-232-UV-IS-N-P	5 Years	Normal	1 or 2 Lite F17/25/32 T8, Standard Output
			KTEB-232-UV-IS-H-P	5 Years	High	1 or 2 Lite F17/25/32 T8, High Output
			347V	KTEB-232-3-IS-N-P	5 Years	Normal
	3	120-277V	KTEB-332-UV-IS-L-P	5 Years	Low	2 or 3 Lite F17/25/32 T8, Reduced Output
			KTEB-332-UV-IS-N-P	5 Years	Normal	2 or 3 Lite F17/25/32 T8, Standard Output
			KTEB-332-UV-IS-H-P	5 Years	High	2 or 3 Lite F17/25/32 T8, High Output
	4	120-277V	KTEB-432-UV-IS-L-P	5 Years	Low	3 or 4 Lite F17/25/32 T8, Reduced Output
			KTEB-432-UV-IS-N-P	5 Years	Normal	3 or 4 Lite F17/25/32 T8, Standard Output
			KTEB-432-UV-IS-H-P	5 Years	High	3 or 4 Lite F17/25/32 T8, High Output
		347V	KTEB-432-3-IS-N-P	5 Years	High	3 or 4 Lite F17/25/32/40 T8, High Output
F96T8	2	120-277V	KTEB-259-UV-IS-N	5 Years	Normal	1 or 2 Lite F96T8, Standard Output
F96T8HO	2	120-277V	KTEB-286HO-UV-IS-N	5 Years	Normal	1 or 2 Lite F96T8HO, Standard Output

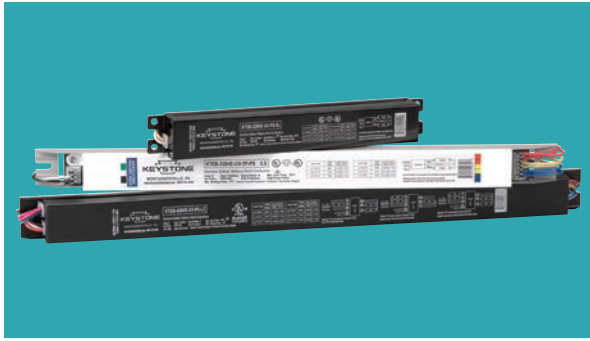
*F32T8 lamps including F32T8 (25W), F32T8 (28W), F32T8 (30W) and F32T8 (32W)

T8 PROGRAM START

Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Light Output	Description
F17T8 F25T8 F32T8*	1	120-277V	KTEB-132-UV-PS-N-P	5 Years	Normal	1 Lite F17/25/32 T8, Standard Output
	2	120-277V	KTEB-232-UV-PS-VDIM	5 Years	Normal	2 Lite F17/25/32 T8, 0-10V Dimming
			KTEB-232-UV-PS-L-P	5 Years	Low	1 or 2 Lite 17/25/32 T8, Reduced Output
			KTEB-232-UV-PS-N-P	5 Years	Normal	1 or 2 Lite F17/25/32 T8, Standard Output
			KTEB-232-UV-PS-H-P	5 Years	High	1 or 2 Lite F17/25/32 T8, High Output
	3	120-277V	KTEB-332-UV-PS-L-P	5 Years	Low	2 or 3 Lite F17/25/32 T8, Reduced Output
			KTEB-332-UV-PS-N-P	5 Years	Normal	2 or 3 Lite F17/25/32 T8, Standard Output
			KTEB-332-UV-PS-H-P	5 Years	High	2 or 3 Lite F17/25/32 T8, High Output
	4	120-277V	KTEB-432-UV-PS-L-P	5 Years	Low	3 or 4 Lite F17/25/32 T8, Reduced Output
			KTEB-432-UV-PS-N-P	5 Years	Normal	3 or 4 Lite F17/25/32 T8, Standard Output
F58T8, F70T8	2	120-277V	KTEB-270-UV-PS-N /C1	5 Years	Normal	1 or 2 Lite F58/70 T8, Freezer Ballast with Molex Connectors
F96T8HO	2	120-277V	KTEB-286HO-UV-PS-N	5 Years	Normal	1 or 2 Lite F96T8HO, Standard Output

*F32T8 lamps including F32T8 (25W), F32T8 (28W), F32T8 (30W) and F32T8 (32W) except KTEB-232-UV-PS-VDIM

FLUORESCENT BALLASTS



T5

Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Description
F14T5, F21T5, F28T5	1 or 2	120-277V	KTEB-228HE-UV-PS	5 Years	1 or 2 Lite F14/21/28 T5 Program Start, 90°C Rated
			KTEB-228HE-UV-PS-SL	5 Years	1 or 2 Lite F14/21/28 T5 Program Start, 90°C Rated, 9" Case

T5HO

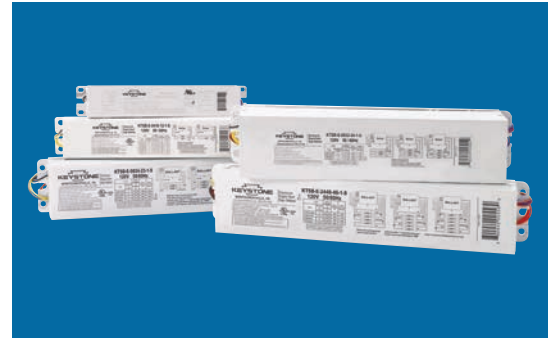
Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Description
F24T5HO	1 or 2	120-277V	KTEB-224HO-UV-PS	5 Years	1 or 2 Lite F24T5HO Program Start, 90°C Rated
			KTEB-224HO-UV-PS-SL	5 Years	1 or 2 Lite F24T5HO Program Start, 90°C Rated, 9" Case
			KTEB-239HO-UV-PS	5 Years	1 or 2 Lite F24T5HO or F39T5HO Program Start, 90°C Rated
			KTEB-239HO-UV-PS-SL	5 Years	1 or 2 Lite F24T5HO or F39T5HO Program Start, 90°C Rated, 9" Case
F39T5HO	1 or 2	120-277V	KTEB-239HO-UV-PS	5 Years	1 or 2 Lite F24T5HO or F39T5HO Program Start, 90°C Rated
			KTEB-239HO-UV-PS-SL	5 Years	1 or 2 Lite F24T5HO or F39T5HO Program Start, 90°C Rated, 9" Case
F54T5HO	1 or 2	120-277V	KTEB-254HO-UV-PS	5 Years	1 or 2 Lite F54T5HO Program Start, 90°C Rated
			KTEB-254HO-UV-PS-SL	5 Years	1 or 2 Lite F54T5HO Program Start, 90°C Rated, 9" Case
	3 or 4	120-277V	KTEB-454HO-UV-PS	5 Years	3 or 4 Lite F54T5HO Program Start, 90°C Rated

COMPACT FLUORESCENT

Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Description
9W CFL	1	120V	CC579TP	3 Years	5, 7, 9W, 2-Pin CFL, Magnetic
13W CFL	1	120V	CC1322TP	3 Years	13W, 2-Pin CFL, Magnetic
			113SHPTP	3 Years	1 Lite 13W 2-Pin CFL, High Power Factor, Magnetic
	1 or 2	120-277V	KTEB-213-UV-PS-DW	5 Years	1 or 2 Lite 13W 4-Pin CFL, Program Start
			KTEB-213-UV-RS-DW	5 Years	1 or 2 Lite 13W 4-Pin CFL, Rapid Start
18W CFL	1 or 2	120-277V	KTEB-213-UV-RS-DW-KIT	5 Years	1 or 2 Lite 13W 4-Pin CFL, Kit includes Wires/Stud Plate
			KTEB-218-UV-PS-DW	5 Years	1 or 2 Lite 18W 4-Pin CFL, Program Start
			KTEB-218-UV-RS-DW	5 Years	1 or 2 Lite 18W 4-Pin CFL, Rapid Start
26W CFL	1 or 2	120-277V	KTEB-218-UV-RS-DW-KIT	5 Years	1 or 2 Lite 18W 4-Pin CFL, Kit includes Wires/Stud Plate
			KTEB-226-UV-PS-DW	5 Years	1 or 2 Lite 26W 4-Pin CFL, Program Start
			KTEB-226-UV-RS-DW	5 Years	1 or 2 Lite 26W 4-Pin CFL, Rapid Start
42W CFL	1 or 2	120-277V	KTEB-226-UV-RS-DW-KIT	5 Years	1 or 2 Lite 26W 4-Pin CFL, Kit includes Wires/Stud Plate
			KTEB-242-UV-PS-DW	5 Years	1 or 2 Lite 42W 4-Pin CFL, Program Start
			KTEB-242-UV-RS-DW	5 Years	1 or 2 Lite 42W 4-Pin CFL, Rapid Start
			KTEB-242-UV-RS-DW-KIT	5 Years	1 or 2 Lite 42W 4-Pin CFL, Kit includes Wires/Stud Plate

CIRCLINE

Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Description
FC8T9	1	120V	SS22WSTP	3 Years	22W Circline, Small Case, Self-Start, Magnetic with Sockets
FC22T9	1	120V	KTEB-1C22-1-TP-WS	3 Years	1 Lite 22W, Small Case, with Sockets
FC32T9 or FC40T9	1	120V	KTEB-140-1-TP-EMI-WS	3 Years	1 Lite 32 or 40W, with Sockets
	1	120V	KTEB-140-1-TP-EMI-WS	3 Years	1 Lite 32 or 40W, with Sockets
FC22T9 & FC32T9 or FC32T9 & FC40T9	2	120V	KTEB-2C72-1-TP-WS	3 Years	2 Lite 22W & 32W or 32 & 40W, with Sockets



SMARTWIRE™ ELECTRONIC SIGN BALLASTS



SmartWire Technology: Wires exactly the same as traditional magnetic ballasts for seamless compatibility and installation.

Lightweight: Using solid-state technology, SmartWire electronic sign ballasts weigh *up to 50% less* than heavy magnetic ballasts, making transporting and handling significantly easier.

2014 DOE Compliant: All SmartWire electronic sign ballasts exceed the energy efficiency levels mandated by the DOE and are at least 10% more energy efficient than traditional magnetic sign ballasts.

Versatile: Just 5 SmartWire ballasts operate both T8HO and T12HO lamps, reducing inventory without sacrificing application options.

Additional Features: Series Wiring • Minimum Starting Temperature of -30°C/-20°F • 120V Input

Total T8HO Lamp Footage Permitted (in Feet)

		2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
Lamps Per Ballast	1	KTSB-E-0208-11-1-S																								
	1-2	KTSB-E-0416-12-1-S																								
	2-3	KTSB-E-0824-23-1-S																								
	2-4	KTSB-E-0832-24-1-S																								
	4-6	KTSB-E-2448-46-1-S																								

Total T12HO Lamp Footage Permitted (in Feet)

		2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
Lamps Per Ballast	1	KTSB-E-0208-11-1-S																								
	1-2	KTSB-E-0416-12-1-S																								
	2-3	KTSB-E-0824-23-1-S																								
	2-4	KTSB-E-0832-24-1-S																								
	4-6	KTSB-E-2448-46-1-S																								

Input Voltage	No. of Lamps	Combined Lamp Length	Catalog Number	Description
T12HO				
120V	1	2-8 Feet	KTSB-E-0208-11-1-S	1 T12HO Lamp with Combined Length of 2-8 Feet
	1-2	4-16 Feet	KTSB-E-0416-12-1-S	1-2 T12HO Lamps with Combined Length of 4-16 Feet
	2-3	8-24 Feet	KTSB-E-0824-23-1-S	2-3 T12HO Lamps with Combined Length of 8-24 Feet
	2-4	8-32 Feet	KTSB-E-0832-24-1-S	2-4 T12HO Lamps with Combined Length of 8-32 Feet
	4-6	24-48 Feet	KTSB-E-2448-46-1-S	4-6 T12HO Lamps with Combined Length of 24-48 Feet
T8HO				
120V	1	2-8 Feet	KTSB-E-0208-11-1-S	1 T8HO Lamp with Combined Length of 2-8 Feet
	1-2	4-12 Feet	KTSB-E-0416-12-1-S	1-2 T8HO Lamps, with Combined Length of 4-12 Feet
	2-3	8-18 Feet	KTSB-E-0824-23-1-S	2-3 T8HO Lamps with Combined Length of 8-18 Feet
	2-4	8-24 Feet	KTSB-E-0832-24-1-S	2 or 4 T8HO Lamps with Combined Length of 8-24 Feet
	4-6	18-36 Feet	KTSB-E-2448-46-1-S	4 or 6 T8HO Lamps with Combined Length of 18-36 Feet



PARALLELWIRE

ELECTRONIC SIGN BALLASTS

Total T8HO Lamp Footage Permitted (in Feet)

	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48					
Lamps Per Ballast	1-2	KTSB-E-0216-12-UV																											
	1-4	KTSB-E-0432-14-UV																											
	1-4	KTSB-E-1040-14-UV																											
	4-6	KTSB-E-0848-46-UV																											

Total T12HO Lamp Footage Permitted (in Feet)

	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48					
Lamps Per Ballast	1-2	KTSB-E-0216-12-UV																											
	1-4	KTSB-E-0432-14-UV																											
	1-4	KTSB-E-1040-14-UV																											
	4-6	KTSB-E-0848-46-UV																											

Input Voltage	No. of Lamps	Combined Lamp Length	Catalog Number	Description
T12HO				
120-277	1-2	2-16 Feet	KTSB-E-0216-12-UV	1-2 T12HO Lamps with Combined Length of 2-16 feet*
	1-4	4-32 Feet	KTSB-E-0432-14-UV	1-4 T12HO Lamps with Combined Length of 4-32 feet*
		10-40 Feet	KTSB-E-1040-14-UV	1-4 T12HO Lamps with Combined Length of 10-40 feet
	4-6	8-48 Feet	KTSB-E-0848-46-UV	4-6 T12HO Lamps with Combined Length of 8-48 feet*
T8HO				
120-277	1-2	4-12 Feet	KTSB-E-0216-12-UV	1-2 T8HO Lamps with Combined Length of 4-12 feet*
	1-4	4-24 Feet	KTSB-E-0432-14-UV	1-4 T8HO Lamps with Combined Length of 4-24 feet*
		8-32 Feet	KTSB-E-1040-14-UV	1-4 T8HO Lamps with Combined Length of 8-32 feet*
	4-6	16-36 Feet	KTSB-E-0848-46-UV	4-6 T8HO Lamps with Combined Length of 16-36 feet*

*For use only with lamps 8' and shorter



METAL HALIDE BALLAST KITS

Each kit includes the ballast pre-wired to a properly rated capacitor and ignitor (if required), mounting hardware, and pictorial installation guide.

Lamp Wattage	No. of Taps	Input Voltage	Catalog Number	Description
50W	Quad	120/208/240/277V	MH-50X-Q-KIT	50W (M110) Metal Halide Ballast Kit
70W	Quad	120/208/240/277V	MH-70X-Q-KIT	70W (M98) Metal Halide Ballast Kit
100W	Quad	120/208/240/277V	MH-100X-Q-KIT	100W (M90) Metal Halide Ballast Kit
150W	Quad	120/208/240/277V	MH-150X-Q-KIT	150W (M102) Metal Halide Ballast Kit
175W	Quad	120/208/240/277V	MH-175A-Q-KIT	175W (M57) Metal Halide Ballast Kit
	5-Tap	120/208/240/277/480V	MH-175A-P-KIT	175W (M57) Metal Halide Ballast Kit
250W	Single	480V	MH-250A-480-KIT	250W (M58) Metal Halide Ballast Kit
	Quad	120/208/240/277V	MH-250A-Q-KIT	250W (M58) Metal Halide Ballast Kit
	5-Tap	120/208/240/277/480V	MH-250A-P-KIT	250W (M58) Metal Halide Ballast Kit
400W	Single	480V	MH-400A-480-KIT	400W (M59) Metal Halide Ballast Kit
	Quad	120/208/240/277V	MH-400A-Q-KIT	400W (M59) Metal Halide Ballast Kit
	5-Tap	120/208/240/277/480V	MH-400A-P-KIT	400W (M59) Metal Halide Ballast Kit
1000W	Single	480V	MH-1000A-480-KIT	1000W (M47) Metal Halide Ballast Kit
	Quad	120/208/240/277V	MH-1000A-Q-KIT	1000W (M47) Metal Halide Ballast Kit
	5-Tap	120/208/240/277/480V	MH-1000A-P-KIT	1000W (M47) Metal Halide Ballast Kit
1500W	Quad	120/208/240/277V	MH-1500A-Q-KIT	1500W (M48) Metal Halide Ballast Kit
	5-Tap	120/208/240/277/480V	MH-1500A-P-KIT	1500W (M48) Metal Halide Ballast Kit

IGNITORS

Catalog Number	Lamp Type	Wattage	Type
IGN-XG-04	Probe Start Metal Halide	50-150W	HX

CAPACITORS

Catalog Number	Lamp Type	Wattage	Microfarad	Voltage	Type
CAP-50MH	Metal Halide	50W	6 μ F	280V	Dry Film
CAP-70MH	Metal Halide	70W	8 μ F	280V	Dry Film
CAP-100MH	Metal Halide	100W	12 μ F	280V	Dry Film
CAP-150MH	Metal Halide	150W	16 μ F	280V	Dry Film
CAP-175MH	Metal Halide	175W	10 μ F	400V	Dry Film
CAP-250MH	Metal Halide	250W	15 μ F	400V	Dry Film
CAP-400MH	Metal Halide	400W	24 μ F	400V	Dry Film
CAP-1000MH	Metal Halide	1000W	24 μ F	480V	Oil Filled
CAP-1500MH	Metal Halide	1500W	32 μ F	525V	Oil Filled

METAL HALIDE F-CAN BALLASTS

Lamp Wattage	No. of Taps	Input Voltage	Catalog Number	Description
50W	Dual	120/277V	MH-50X-D-FCAN	50W (M110) Metal Halide F-Can
70W	Dual	120/277V	MH-70X-D-FCAN	70W (M98) Metal Halide F-Can
100W	Dual	120/277V	MH-100X-D-FCAN	100W (M90) Metal Halide F-Can
150W	Dual	120/277V	MH-150X-D-FCAN	150W (M102) Metal Halide F-Can
175W	Dual	120/277V	MH-175A-D-FCAN	175W (M57/H39) Metal Halide F-Can
250W	Dual	120/277V	MH-250A-D-FCAN	250W (M58/H37) Metal Halide F-Can
400W	Dual	120/277V	MH-400A-D-FCAN	400W (M59/H33) Metal Halide F-Can



PULSE START METAL HALIDE BALLAST KITS

Each kit includes the ballast pre-wired to a properly rated capacitor and ignitor (if required), mounting hardware, and pictorial installation guide.

Lamp Wattage	No. of Taps	Input Voltage	Catalog Number	Description
175W	Quad	120/208/240/277V	MPS-175A-Q-KIT	175W Pulse Start (M137) Metal Halide Ballast Kit, EISA Compliant
	5 Tap	120/208/240/277/480V	MPS-175A-P-KIT	175W Pulse Start (M137) Metal Halide Ballast Kit, EISA Compliant
200W	5 Tap	120/208/240/277/480V	MPS-200A-P-KIT	200W Pulse Start (M136) Metal Halide Ballast Kit, EISA Compliant
250W	Quad	120/208/240/277V	MPS-250A-Q-KIT	250W Pulse Start (M138) Metal Halide Ballast Kit, EISA Compliant
	5 Tap	120/208/240/277/480V	MPS-250A-P-KIT	250W Pulse Start (M138) Metal Halide Ballast Kit, EISA Compliant
320W	Quad	120/208/240/277V	MPS-320A-Q-KIT	320W Pulse Start (M132) Metal Halide Ballast Kit, EISA Compliant
	5 Tap	120/208/240/277/480V	MPS-320A-P-KIT	320W Pulse Start (M132) Metal Halide Ballast Kit, EISA Compliant
350W	Quad	120/208/240/277V	MPS-350A-Q-KIT	350W Pulse Start (M131) Metal Halide Ballast Kit, EISA Compliant
	5 Tap	120/208/240/277/480V	MPS-350A-P-KIT	350W Pulse Start (M131) Metal Halide Ballast Kit, EISA Compliant
400W	Single	480V	MPS-400A-480-KIT	400W Pulse Start (M135) Metal Halide Ballast Kit, EISA Compliant
	Quad	120/208/240/277V	MPS-400A-Q-KIT	400W Pulse Start (M135) Metal Halide Ballast Kit, EISA Compliant
	5 Tap	120/208/240/277/480V	MPS-400A-P-KIT	400W Pulse Start (M135) Metal Halide Ballast Kit, EISA Compliant
450W	Quad	120/208/240/277V	MPS-450A-Q-KIT	450W Pulse Start (M144) Metal Halide Ballast Kit, EISA Compliant
	5 Tap	120/208/240/277/480V	MPS-450A-P-KIT	450W Pulse Start (M144) Metal Halide Ballast Kit, EISA Compliant
750W	Quad	120/208/240/277V	MPS-750A-Q-KIT	750W Pulse Start (M149) Metal Halide Ballast Kit
	5 Tap	120/208/240/277/480V	MPS-750A-P-KIT	750W Pulse Start (M149) Metal Halide Ballast Kit
1000W	Quad	120/208/240/277V	MPS-1000A-Q-KIT	1000W Pulse Start (M141) Metal Halide Ballast Kit
	5 Tap	120/208/240/277/480V	MPS-1000A-P-KIT	1000W Pulse Start (M141) Metal Halide Ballast Kit

IGNITORS

Catalog Number	Lamp Type	Wattage	Type
IGN-XG-03	Pulse Start Metal Halide	1000W	CWA
IGN-XG-03/A	Pulse Start Metal Halide	750W	CWA
IGN-XG-04	Pulse Start Metal Halide	50-450W	HX

CAPACITORS

Catalog Number	Lamp Type	Wattage	Microfarad	Voltage	Type
CAP-70MH	Metal Halide	70W	8 μ F	280V	Dry Film
CAP-100MH	Metal Halide	100W	12 μ F	280V	Dry Film
CAP-150MH	Metal Halide	150W	16 μ F	280V	Dry Film
CAP-175MPS	Pulse Start Metal Halide	175W	11 μ F	400V	Dry Film
CAP-200MPS	Pulse Start Metal Halide	200W	15 μ F	330V	Dry Film
CAP-250MPS	Pulse Start Metal Halide	250W	17 μ F	400V	Dry Film
CAP-320MPS	Pulse Start Metal Halide	320W	21 μ F	345V	Dry Film
CAP-350MPS	Pulse Start Metal Halide	350W	22.5 μ F	345V	Dry Film
CAP-400MPS	Pulse Start Metal Halide	400W	26 μ F	330V	Dry Film
CAP-450MPS	Pulse Start Metal Halide	450W	26.5 μ F	400V	Dry Film
CAP-750MPS	Pulse Start Metal Halide	750W	28 μ F	400V	Oil Filled
CAP-1000MPS	Pulse Start Metal Halide	1000W	24 μ F	480V	Oil Filled



HIGH PRESSURE SODIUM BALLAST KITS

Each kit includes the ballast pre-wired to a properly rated capacitor and ignitor (if required), mounting hardware, and pictorial installation guide.

Lamp Wattage	No. of Taps	Input Voltage	Catalog Number	Description
35W	Single	120V	HPS-35R-1-KIT	35W (S76) High Pressure Sodium Ballast Kit
50W	Single	120V	HPS-50R-1-KIT	50W (S68) High Pressure Sodium Ballast Kit
70W	Single	120V	HPS-70R-1-KIT	70W (S62) High Pressure Sodium Ballast Kit
	Quad	120/208/240/277V	HPS-70X-Q-KIT	70W (S62) High Pressure Sodium Ballast Kit
100W	Single	120V	HPS-100R-1-KIT	100W (S54) High Pressure Sodium Ballast Kit
	Quad	120/208/240/277V	HPS-100X-Q-KIT	100W (S54) High Pressure Sodium Ballast Kit
150W	Single	120V	HPS-150R-1-KIT	150W (S55) High Pressure Sodium Ballast Kit
	Quad	120/208/240/277V	HPS-150X-Q-KIT	150W (S55) High Pressure Sodium Ballast Kit
250W	Quad	120/208/240/277V	HPS-250A-Q-KIT	250W (S50) High Pressure Sodium Ballast Kit
	5-Tap	120/208/240/277/480V	HPS-250A-P-KIT	250W (S50) High Pressure Sodium Ballast Kit
400W	Single	480V	HPS-400A-480-KIT	400W (S51) High Pressure Sodium Ballast Kit
	Quad	120/208/240/277V	HPS-400A-Q-KIT	400W (S51) High Pressure Sodium Ballast Kit
	5-Tap	120/208/240/277/480V	HPS-400A-P-KIT	400W (S51) High Pressure Sodium Ballast Kit
600W	Quad	120/208/240/277V	HPS-600A-Q-KIT	600W (S106) High Pressure Sodium Ballast Kit
1000W	Quad	120/208/240/277V	HPS-1000A-Q-KIT	1000W (S52) High Pressure Sodium Ballast Kit
	5-Tap	120/208/240/277/480V	HPS-1000A-P-KIT	1000W (S52) High Pressure Sodium Ballast Kit

IGNITORS

Catalog Number	Lamp Type	Wattage	Type
IGN-XG-01	High Pressure Sodium	35-150W	Reactor, HX
IGN-XG-02	High Pressure Sodium	250-400W	CWA
IGN-XG-03	High Pressure Sodium	1000W	CWA
IGN-XG-06	High Pressure Sodium	600W	CWA

CAPACITORS

Catalog Number	Lamp Type	Wattage	Microfarad	Voltage	Type
CAP-70HPS	High Pressure Sodium	70W	7 μ F	280V	Dry Film
CAP-100HPS	High Pressure Sodium	100W	10 μ F	280V	Dry Film
CAP-150HPS	High Pressure Sodium	150W	14 μ F	280V	Dry Film
CAP-250HPS	High Pressure Sodium	250W	35 μ F	240V	Dry Film
CAP-400HPS	High Pressure Sodium	400W	55 μ F	300V	Dry Film
CAP-1000HPS	High Pressure Sodium	1000W	26 μ F	525V	Oil Filled



12V HALOGEN TRANSFORMERS

Max. Input Power	Input Voltage	Catalog Number	Input Current	Output Voltage	Dimmable	Remarks	Additional Approvals
60W	120V	KTET-60-1-WC-F	0.50A	11V	No	With Cord and Fuse	
		KTET-60-1-SCP-DIM-AL	0.50A	12V	Yes	Class 2, Short Circuit Protected, Aluminum Case	
75W	120V	KTET-75-1-SCP-EMI	0.63A	11V	No	Short Circuit Protected, EMI Filter	
		KTET-75-1-SCP-DIM-RJS	0.62A	11V	Yes	With Rear Mount Studs and Leads for J-Box Application	
		KTET-75-1-SCP-DIM-HV-AL	0.59A	12V	Yes	With Aluminum Case, Side Leads	
		KTET-75-2-SCP-RJS	0.26A	11V	No	With Rear Mount Studs and Leads for J-Box Application	
150W	120V	KTET-150-1-SCP-DIM	1.27A	11.4V	Yes	Short Circuit Protected, Aluminum Case	

STEP DOWN TRANSFORMERS

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			Additional Approvals
	Input Voltage	Input Current at Max. Load	Input Current at No Load	Output Voltage	Max. Load	Max Output Current	
KTAT-375-480-277 /A	480V	0.86A	0.21A	277V	375VA	1.35A	
	347V	0.86A	0.11A	200V	270VA	1.35A	
KTAT-250-480-277 /A	480V	0.57A	0.16A	277V	250VA	0.90A	
	347V	0.57A	0.11A	200V	180VA	0.90A	
KTAT-70-347-277	347V	0.23A	0.07A	277V	70VA	0.27A	
KTAT-70-347-277-RJS	347V	0.23A	0.07A	277V	70VA	0.27A	
KTAT-70-480-277	480V	0.16A	0.06A	277V	70VA	0.25A	
	347V	0.22A	0.08A	277V	70VA	0.25A	
KTAT-70-480-277-RJS	480V	0.16A	0.06A	277V	70VA	0.25A	
	347V	0.22A	0.08A	277V	70VA	0.25A	
KTAT-30-347-277	347V	0.11A	0.05A	277V	30VA	0.13A	
KTAT-30-347-277-RJS	347V	0.11A	0.05A	277V	30VA	0.13A	

LIGHT

Lighting is our legacy. It's all we've done since 1945, relentlessly developing energy efficient lighting solutions for the industry's most discerning customers. From incumbent fluorescent lighting systems through the latest LED technologies, Keystone is singularly focused on being your one-stop-shop for quality lighting products.

MADE

With more than 100 Million Keystone ballasts and LED drivers in use today, thousands of installers, architects, and engineers depend on Keystone for lighting products that are manufactured to last. We factory test 100% of every production run, so you know that when you install a Keystone product, it's made to perform.

EASY

What makes us different? We fundamentally believe that we are here to make buying and using lighting products easy. From easy-to-read installation guides to exceptionally fast quote response time and the most convenient fulfillment centers in the industry, our primary goal is to make lighting refreshingly easy.



Contact us today to experience **Light Made Easy**, only by Keystone.



Keystone Technologies • 1390 Welsh Road, North Wales, PA 19454 • Phone (800) 464-2680
Fax (888) 966-0556 • www.keystonetech.com

WAREHOUSE LOCATIONS: Atlanta, GA • Boston, MA • Charlotte, NC • Chicago, IL • Cincinnati, OH • Dallas, TX • Denver, CO • Detroit, MI
Fort Lauderdale, FL • Houston, TX • Kansas City, MO • Los Angeles, CA • Louisville, KY • Memphis, TN • Minneapolis, MN • Nashville, TN
New Orleans, LA • Philadelphia, PA • Phoenix, AZ • Portland, OR • San Francisco, CA • Syracuse, NY