



LIGHTING PRODUCTS QUICK REFERENCE GUIDE

MARCH 2019



3 GENERATIONS OF FAMILY OWNERSHIP

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

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

SINCE
1945

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 LIGHTING
PRODUCTS in use today.

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Seeing is believing.

Free samples **always** available to help you **win** the job.

LIGHT MADE EASY

*↑
Samples*

Ordering a sample is easy: Phone: 800-464-2680 | Email: samples@keystonetech.com | Web: keystonetech.com/samples

THE KEYSTONE DIFFERENCE



Free samples



Friendly customer service



Fast quotes



Quick delivery



Industry-leading warranty



U.S. based



FULFILLMENT CENTERS

Headquarters: Philadelphia, PA

Additional Fulfillment Center Locations:

Atlanta, GA

Boston, MA

Charlotte, NC

Chicago, IL

Dallas, TX

Denver, CO

Detroit, MI

Fort Lauderdale, FL

Houston, TX

Indianapolis, IN

Kansas City, MO

Los Angeles, CA

Louisville, KY

Memphis, TN

Minneapolis, MN

Nashville, TN

New Orleans, LA

Portland, OR

San Francisco, CA

Syracuse, NY

POP DISPLAYS

Seeing is believing! That's why we offer a variety of point of purchase displays. Contact your local Keystone representative to include a display with your next shipment.

Retail Display



Sign Hero Countertop Display



HID LED Countertop Display

LINEAR LED TUBES

External Drive T8



EXTERNAL DRIVE LED
TYPE C LED TUBES

FEATURES AND BENEFITS

- UL Type C LED tubes, powered by Keystone Type C LED drivers (driver required)
- Keystone T8 linear and U-bend lamp and driver pairings wire exactly the same as instant start T8 ballasts for quick and easy installation
- UL Classified Std. 1598C
- T8 and T5 linear lamps are glass construction with metal end caps; U-bend lamps are nano plastic construction
- Operating temperature: -20°C/-4°F to 45°C/113°F
- THD <15% at full driver load
- Power factor > 0.90 at full driver load
- 0-10V dimmable
- Low optical flicker

2' T8 LAMPS

2' T8 LAMPS				System Wattage per Lamp						
Catalog Number	CRI	Bare Lamp Wattage	Lumens	Driver: KTLD-4LT8-UV-8C-VDIM		Driver: KTLD-2LT8-UV-8C-VDIM		4 Lamp Nominal Efficacy	2 Lamp Nominal Efficacy	Meets DLC
				4 Lamps	3 Lamps	2 Lamps	1 Lamp			
KT-LED8T8-24G-8xx-E	>82	8W	1,200	8.9W	9.0W	9.1W	9.2W	135 lm/W	132 lm/W	Yes

3' T8 LAMPS

3' T8 LAMPS				System Wattage per Lamp						
Catalog Number	CRI	Bare Lamp Wattage	Lumens	Driver:KTLD-4LT8-UV-12C-VDIM		Driver: KTLD-2LT8-UV-12C-VDIM		4 Lamp Nominal Efficacy	2 Lamp Nominal Efficacy	Meets DLC
				4 Lamps	3 Lamps	2 Lamps	1 Lamp			
KT-LED12T8-36G-8xx-E	>83	12W	1,780	13.4W	13.5W	13.8W	14.1W	133 lm/W	129 lm/W	Yes

4' T8 LAMPS

4' T8 LAMPS				System Wattage per Lamp						
Catalog Number	CRI	Bare Lamp Wattage	Lumens	Driver: KTLD-4LT8-UV-12C-VDIM		Driver: KTLD-2LT8-UV-12C-VDIM		4 Lamp Nominal Efficacy	2 Lamp Nominal Efficacy	Meets DLC
				4 Lamps	3 Lamps	2 Lamps	1 Lamp			
KT-LED12T8-48G-8xx-E	>82	12W	1,800	13.4W	13.5W	13.8W	14.1W	134 lm/W	130 lm/W	Yes

*8xx denotes several color temperatures available. 3' lamps also available in 3000K.

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K
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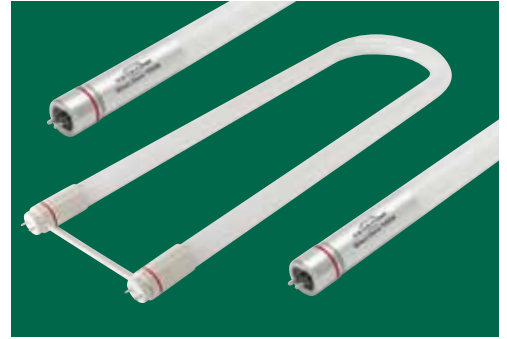
DRIVER INFORMATION

Catalog Number	Description	Dimensions
KTLD-2LT8-UV-8C-VDIM	LED driver for (1-2) 2' Type C T8 lamps; 120-277V input; 0-10V dimming; 185mA output current	1.10" x 1.30" x 9.50"
KTLD-2LT8-UV-12C-VDIM	LED driver for (1-2) 4' Type C T8 lamps; 120-277V input; 0-10V dimming; 270mA output current	1.30" x 1.80" x 9.50"
KTLD-4LT8-UV-8C-VDIM	LED driver for (3-4) 2' Type C T8 lamps; 120-277V input; 0-10V dimming; 185mA output current	1.10" x 1.30" x 9.50"
KTLD-4LT8-UV-12C-VDIM	LED driver for (3-4) 4' Type C T8 lamps; 120-277V input; 0-10V dimming; 270mA output current	1.30" x 1.80" x 9.50"

**5YEAR**
WARRANTY**50,000 HOUR**
LIFETIME

LINEAR LED TUBES

External Drive T5 and U-Bend



EXTERNAL DRIVE LED

TYPE C LED TUBES

4' T5HO LAMPS

4' T5HO LAMPS					System Wattage per Lamp					
Catalog Number	Nominal Length	CRI	Bare Lamp Wattage	Lumens	KTLD-4LT5HO-UV-22C-VDIM		KTLD-2LT5HO-UV-22C-VDIM		4 Lamp Nominal Efficacy	2 Lamp Nominal Efficacy
					4 Lamps	3 Lamps	2 Lamps	1 Lamp		
KT-LED22T5HO-48G-8xx-E	4'	>82	22W	3400	25.1W	25.4	25.3W	25.7W	135 lm/W	134 lm/W

4' T5HE LAMPS

4' T5HE LAMPS					System Wattage per Lamp					
Catalog Number	Nominal Length	CRI	Bare Lamp Wattage	Lumens	KTLD-4LT5HE-UV-12C-VDIM		KTLD-2LT5HE-UV-12C-VDIM		4 Lamp Nominal Efficacy	2 Lamp Nominal Efficacy
					4 Lamps	3 Lamps	2 Lamps	1 Lamp		
KT-LED12T5HE-48G-8xx-E	4'	>82	12W	1800	13.4W	13.5W	13.8W	14.1W	134 lm/W	130 lm/W

6" T8 U-BEND LAMPS

6" T8 U-BEND LAMPS					System Wattage per Lamp					
Catalog Number	Nominal Length	CRI	Bare Lamp Wattage	Lumens	KTLD-4LT8-UV-12C-VDIM		KTLD-2LT8-UV-12C-VDIM		4 Lamp Nominal Efficacy	2 Lamp Nominal Efficacy
					4 Lamps	3 Lamps	2 Lamps	1 Lamp		
KT-LED12T8-U6P-8xx-E	4'	>82	12W	1800	13.4W	13.5W	13.8W	14.1W	134 lm/W	130 lm/W

* 8xx denotes several color temperatures available:

835

800 Series, 3500K

840

800 Series, 4000K

850

800 Series, 5000K

DRIVER INFORMATION

Catalog Number	Description	Dimensions
KTLD-2LT5HE-UV-12C-VDIM	Driver for (2) 4' Type C T5HE lamps; 120-277V input; 0-10V dimming; 270mA output current	1.10" x 1.33" x 9.50"
KTLD-2LT5HO-UV-22C-VDIM	Driver for (2) 4' Type C T5HO lamps; 120-277V input; 0-10V dimming; 520mA output current	1.10" x 1.33" x 9.50"
KTLD-2LT8-UV-12C-VDIM	Driver for (2) 4' Type C T8 (U-bend) lamps; 120-277V input; 0-10V dimming; 270mA output current	1.10" x 1.33" x 9.50"
KTLD-4LT5HE-UV-12C-VDIM	Driver for (4) 4' Type C T5HE lamps; 120-277V input; 0-10V dimming; 270mA output current	1.30" x 1.80" x 9.60"
KTLD-4LT5HO-UV-22C-VDIM	Driver for (4) 4' Type C T5HO lamps; 120-277V input; 0-10V dimming; 520mA output current	1.30" x 1.80" x 9.60"

LINEAR LED TUBES

Sign Hero LED Sign Tubes



SIGN HERO

LED SIGN TUBES

Keystone's LED Sign Tubes: The Fastest LED Installation

Sign Hero LED sign tube lets you bypass the ballast without an external driver for the fastest and most affordable LED upgrade.

FEATURES AND BENEFITS

- Patent pending
- Installs using existing sockets in the sign; all necessary wiring can be done within ballast raceway
- Optical lens over individual LEDs for optimal light spread within the sign
- Over 50% more energy efficient than HO fluorescent lamps
- UL Classified: LED sign retrofit, evaluated to UL 48 / UL 879A Standards
- No external driver or power supply needed
- 120-277V input
- Operating temperature: -20°C/-22°F to 55°C/131°F
- Optimized spacing 6" from the face and 12" on center

SAM  **5 YEAR**  **50,000 HOUR**
WARRANTY LIFETIME



Wide light distribution = No shadowing
No hotspots

ROTATABLE
BASE
R17D



UL Classified: LED Sign Retrofit, Evaluated to UL 48 / UL 879A Standards • Listed in the UL SAM Manual

SIGN HERO 360 ENERGY SAVINGS*

540W
(6) F96T12HO

VS

252W
(6) SIGN HERO LED

SIGN HERO 180 ENERGY SAVINGS*

540W
(6) F96T12HO

VS

126W
(6) SIGN HERO LED

*Standard 6-lamp, 8' sign with magnetic ballast

ACCESSORIES (SOLD SEPARATELY)

Catalog Number	Description
KTSP-10KV	External surge protector; input voltage: 120-277V; maximum peak current: 10kV; IP65 Rated
KT-SH-4L-CABLE-KIT	Cable mounting accessory for Sign Hero LED lamps; 1-4 lamp applications; designed to prevent lamp sagging for horizontal applications over 8' long; includes options for mounting via magnets or tek screws
KT-SH-6L-CABLE-KIT	Cable mounting accessory for Sign Hero LED lamps; 1-6 lamp applications; designed to prevent lamp sagging for horizontal applications over 8' long; includes options for mounting via magnets or tek screws

For installation video, visit keystonetech.com/video

Available for All Size Sign Cabinets

For easy replacement, Sign Hero is available in all of the same lamp lengths as T8HO and T12HO fluorescent lamps

NEW! **SIGNHERO 180** SINGLE-SIDED LED SIGN TUBE

Keystone's single-sided sign tube can be used for retrofits or new installations.

Catalog Number	Nominal Length	CRI	Wattage	Socket Type	Total Lumens	Efficacy
KT-LED4T8-18P1S-8xx-D	18"	>80	4W	R17d	480	120 lm/W
KT-LED5T8-24P1S-8xx-D	24"	>80	5W	R17d	600	120 lm/W
KT-LED7T8-30P1S-8xx-D	30"	>80	7W	R17d	840	120 lm/W
KT-LED8T8-36P1S-8xx-D	36"	>80	8W	R17d	1,000	125 lm/W
KT-LED9T8-42P1S-8xx-D	42"	>80	9W	R17d	1,125	125 lm/W
KT-LED11T8-48P1S-8xx-D	48"	>80	11W	R17d	1,340	122 lm/W
KT-LED13T8-60P1S-8xx-D	60"	>80	13W	R17d	1,625	125 lm/W
KT-LED14T8-64P1S-8xx-D	64"	>80	14W	R17d	1,725	123 lm/W
KT-LED16T8-72P1S-8xx-D	72"	>80	16W	R17d	2,000	125 lm/W
KT-LED19T8-84P1S-8xx-D	84"	>80	19W	R17d	2,350	124 lm/W
KT-LED21T8-96P1S-8xx-D	96"	>80	21W	R17d	2,650	126 lm/W
KT-LED24T8-108P1S-8xx-D	108"	>80	24W	R17d	2,900	120 lm/W
KT-LED25T8-117P1S-8xx-D	117"	>80	25W	R17d	3,100	124 lm/W
KT-LED26T8-120P1S-8xx-D	120"	>80	26W	R17d	3,200	123 lm/W

SIGNHERO 360 DOUBLE-SIDED LED SIGN TUBE



2018
NAILD
Best Overall
Product



2018
NAILD
Best
Lamp

Keystone's double-sided sign tube can be used for retrofits and new installations, as well as single- or double-sided signs.

Catalog Number	Nominal Length	CRI	Wattage	Socket Type	Total Lumens	Efficacy	Lumens Per Side	Lumens/Ft, Per Side
KT-LED7T8-18P2S-8xx-D	18"	>80	7W	R17d	900	129 lm/W	450	300
KT-LED10T8-24P2S-8xx-D	24"	>80	10W	R17d	1,200	120 lm/W	600	300
KT-LED13T8-30P2S-8xx-D	30"	>80	13W	R17d	1,600	123 lm/W	800	320
KT-LED16T8-36P2S-8xx-D	36"	>80	16W	R17d	2,000	125 lm/W	1,000	333
KT-LED18T8-42P2S-8xx-D	42"	>80	18W	R17d	2,250	125 lm/W	1,125	321
KT-LED21T8-48P2S-8xx-D	48"	>80	21W	R17d	2,600	124 lm/W	1,300	325
KT-LED26T8-60P2S-8xx-D	60"	>80	26W	R17d	3,250	125 lm/W	1,625	325
KT-LED28T8-64P2S-8xx-D	64"	>80	28W	R17d	3,450	123 lm/W	1,725	325
KT-LED31T8-72P2S-8xx-D	72"	>80	31W	R17d	4,000	129 lm/W	2,000	333
KT-LED37T8-84P2S-8xx-D	84"	>80	37W	R17d	4,700	127 lm/W	2,350	336
KT-LED42T8-96P2S-8xx-D	96"	>80	42W	R17d	5,300	126 lm/W	2,650	331
KT-LED47T8-108P2S-8xx-D	108"	>80	47W	R17d	5,800	123 lm/W	2,900	322
KT-LED50T8-117P2S-8xx-D	117"	>80	50W	R17d	6,200	124 lm/W	3,100	318
KT-LED52T8-120P2S-8xx-D	120"	>80	52W	R17d	6,400	123 lm/W	3,200	320

*8xx denotes several color temperatures available:

840 800 Series, 4000K **865** 800 Series, 6500K

LINEAR LED TUBES

T5 DirectDrive



DIRECT DRIVE LED
LINE VOLTAGE T5 TUBES



FEATURES AND BENEFITS

- Replacement for conventional T5HE and T5HO fluorescent lamps
- Shatterproof coated glass construction
- Easy installation: Single-ending wiring; re-wire existing non-shunted 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	Safety Coating	Efficacy	Meets DLC
T5HE GLASS CONSTRUCTION									
KT-LED9T5HE-24GC-8xx-D	2'	120-277V	>80	9W	1,200	240°	Yes	133 lm/W	N/A
KT-LED12T5HE-36GC-8xx-D	3'	120-277V	>80	12W	1,400	240°	Yes	116 lm/W	N/A
KT-LED13T5HE-48GC-8xx-D	4'	120-277V	>80	13W	1,800	240°	Yes	139 lm/W	Yes
T5HO GLASS CONSTRUCTION									
KT-LED12T5HO-24GC-8xx-D	2'	120-277V	>80	12W	1,500	240°	Yes	125 lm/W	N/A
KT-LED16T5HO-36GC-8xx-D	3'	120-277V	>80	16W	1,900	240°	Yes	119 lm/W	N/A
KT-LED25T5HO-48GC-8xx-D /G2	4'	120-277V	>80	25W	3,400	240°	Yes	136 lm/W	Yes

*8xx denotes several color temperatures available:

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



LINEAR LED TUBES

T8 DirectDrive DX2



DIRECTDRIVE DX2

SINGLE OR DOUBLE ENDED LINE VOLTAGE LED TUBES



Catalog Number	Nominal Length	Input Voltage	CRI	Lamp Wattage	Lumens	Safety Coating	Light Spread	Efficacy	Meets DLC
T8 GLASS CONSTRUCTION									
KT-LED7T8-24GC-8xx-DX2	2'	120-277V	>83	7W	950	Yes	325°	136 lm/W	Yes
KT-LED12T8-36GC-8xx-DX2	3'	120-277V	>83	12W	1,450	Yes	325°	121 lm/W	Yes
KT-LED10.5T8-48G-8xx-DX2 /G2*	4'	120-277V	>83	10.5W	1,720	No	325°	164 lm/W	Yes
KT-LED14.5T8-48G-8xx-DX2	4'	120-277V	>83	14.5W	1,890	No	325°	130 lm/W	Yes
KT-LED15T8-48GC-8xx-DX2	4'	120-277V	>83	15W	1,900	Yes	325°	127 lm/W	Yes
KT-LED18.5T8-48GC-8xx-DX2	4'	120-277V	>83	18.5W	2,600	Yes	325°	141 lm/W	Yes

*Compatible with SmartSafe 5W micro inverter (KT-EMRG-LED-5-500-AC)

*8xx denotes several color temperatures available. 18.5W only available in 3500K, 4000K, and 5000K.

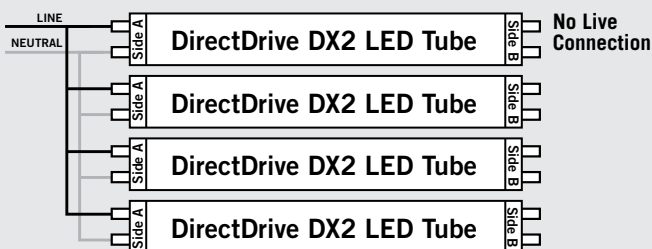
830 800 Series, 3000K **835** 800 Series, 3500K **840** 800 Series, 4000K **850** 800 Series, 5000K **865** 800 Series, 6500K

ONE TUBE. TWO WAYS TO INSTALL.

SINGLE OR DOUBLE ENDED WIRING

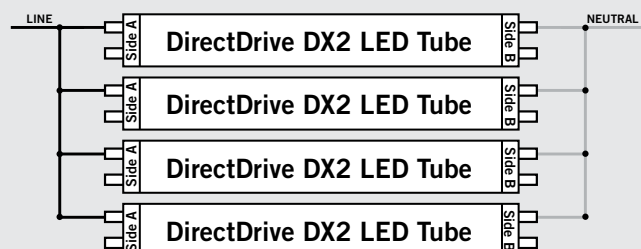
SINGLE-ENDED WIRING

Non-Shunted Lampholders

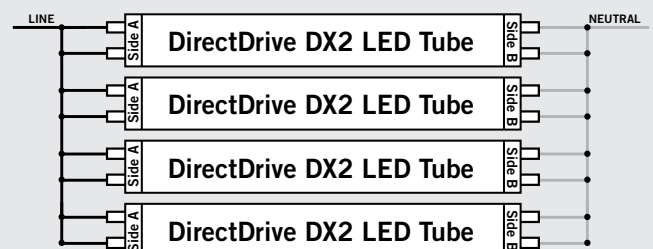


DOUBLE-ENDED WIRING

Shunted Lampholders

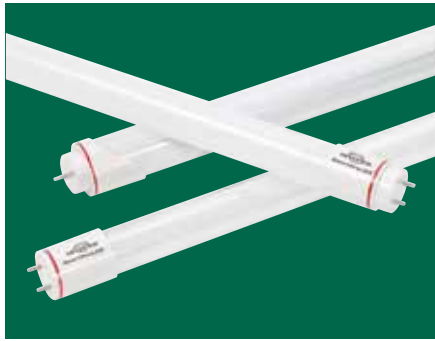


Non-Shunted Lampholders








LINEAR LED TUBES

T8 DirectDrive



DIRECT DRIVE LED
LINE VOLTAGE T8 TUBES



Catalog Number	Nominal Length	Input Voltage	CRI	Lamp Wattage	Lumens	Safety Coating	Light Spread	Efficacy	Meets DLC	Additional Approvals
T8 GLASS CONSTRUCTION, SINGLE-ENDED WIRING										
KT-LED7T8-24GC-8xx-D	2'	120-277V	>80	7W	950	Yes	325°	136 lm/W	Yes	
KT-LED12T8-36GC-8xx-D	3'	120-277V	>80	12W	1,300	Yes	325°	108 lm/W	Yes	
KT-LED10.5T8-48G-8xx-D	4'	120-277V	>83	10.5W	1,750	No	325°	162 lm/W	Yes	
KT-LED10.5T8-48GC-8xx-D	4'	120-277V	>83	10.5W	1,750	Yes	325°	162 lm/W	Yes	
KT-LED12.5T8-48GC-8xx-D	4'	120-277V	>80	12.5W	1,850	Yes	325°	148 lm/W	Yes	
KT-LED15T8-48GC-8xx-D /G3	4'	120-277V	>83	15W	1,900	Yes	325°	127 lm/W	Yes	
KT-LED18.5T8-48GC-8xx-D	4'	120-277V	>83	18.5W	2,500	Yes	325°	135 lm/W	Yes	
KT-LED24T8-60GC-8xx-D	5'	120-277V	>83	24W	2,500	Yes	325°	104 lm/W	N/A	
KT-LED32T8-72GC-8xx-D	6'	120-277V	>80	32W	3,400	Yes	325°	106 lm/W	N/A	
T8 GLASS CONSTRUCTION, DOUBLE-ENDED WIRING										
KT-LED25T8-96G-850-D	8' Single Pin	120-277V	>80	25W	3,500	No	325°	140 lm/W	No	
KT-LED43T8-96G-8xx-D	8' Single Pin	120-277V	>80	43W	5,500	No	325°	128 lm/W	Yes	
KT-LED43T8H0-96G-8xx-D	8' HO	120-277V	>80	43W	5,550	No	325°	129 lm/W	Yes	
T8 PLASTIC/ALUMINUM CONSTRUCTION, DOUBLE-ENDED WIRING										
KT-LED36T8-96P-8xx-D	8' Single Pin	120-277V	>80	36W	4,000	N/A	180°	111 lm/W	No	N/A
KT-LED54T8-96P-8xx-D /G2	8' HO	120-277V	>80	54W	5,900	N/A	180°	110 lm/W	N/A	
HiCRI T8 GLASS CONSTRUCTION, SINGLE-ENDED WIRING										
KT-LED15T8-48GC-9xx-D	4'	120-277V	>90	15W	1,675	Yes	325°	112 lm/W	No	

Catalog Number	Nominal Length	Input Voltage	Lamp Wattage	UV Wavelength	Safety Coating	Light Spread	Meets DLC
T8 BLACKLIGHT GLASS CONSTRUCTION, SINGLE-ENDED WIRING							
KT-LED12T8-48G-BL-D	4'	120-277V	12W	365 nm	No	325°	No

Catalog Number	Nominal Size	Input Voltage	CRI	Lamp Wattage	Lumens	Safety Coating	Light Spread	Efficacy	Meets DLC	Additional Approvals
U-BEND T8 GLASS CONSTRUCTION, SINGLE-ENDED WIRING										
KT-LED15T8-U1G-8xx-D	1 5/8" U-Bend	120-277V	>80	15W	1,800	No	325°	120 lm/W	Yes	NSF
KT-LED18T8-U6GC-8xx-D	6" U-Bend	120-277V	>80	18W	2,150	Yes	325°	119 lm/W	Yes	

DirectDrive Tubes listed meet DLC 4.0+ requirements, unless otherwise noted.

*8xx and 9xx denote several color temperatures available. HiCRI T8 available in 4000K and 5000K only. 10.5W 4' T8 glass lamps not available in 6500K. 12W 3' T8 glass lamps not available in 3000K or 6500K. U-bend lamps not available in 3000K or 6500K.

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

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)	High bay, low bay, warehouse, and general lighting
KT-DDSLEDT8-8-4L	4-lamp 8' LED tube ready strip fixture (lamps sold separately)	High bay, low bay, warehouse, and general lighting

LED TUBE WRAP FIXTURE

Catalog Number	Description	Application
KT-DDWLEDT8-4-2L	2-lamp 4' LED tube ready wrap fixture (lamps sold separately)	Low bay, corridor, and general lighting

LED TUBE HIGH BAY FIXTURES

Catalog Number*	Description
KT-DDHBLEDT8-4-4L	4-lamp 4' LED tube ready high bay fixture (lamps sold separately)
KT-DDHBLEDT8-4-6L	6-lamp 4' LED tube ready high bay fixture (lamps sold separately)

*If full safety certification is required on fixtures, lamps must ship pre-installed in fixtures. Add -U at the end of the catalog numbers to select this option.

8' STRIP LED TUBE 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: 18.5W max per lamp

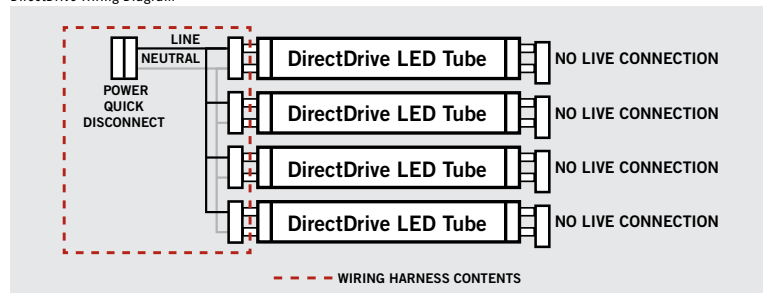
DirectDrive WIRING HARNESSES

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' DirectDrive LED tubes; no sockets included

DirectDrive Wiring Harness with Power Quick Disconnect



DirectDrive Wiring Diagram



Individual sockets are available upon request.

LINEAR LED TUBES

Dimmable DirectDrive T8



DIRECT DRIVE LED
LINE VOLTAGE T8 TUBES



FEATURES AND BENEFITS

- **Dimmable**
- Replacement for conventional fluorescent lamp
- Approximately 40% more energy efficient than standard F32T8 lamps
- Environmentally friendly: no mercury used
- Instant startup
- Frosted lens eliminates pixelation
- Isolated integral driver eliminates the need for external driver or ballast

Catalog Number	Construction	Nominal Length	Input Voltage	Dimming Type	CRI	Lamp Wattage	Lumens	Light Spread	Efficacy	Meets DLC	Additional Approvals
DIMMABLE T8											
KT-LED14.5T8-48GC-8xx-D-FDIM	Shatterproof Coated Glass	4'	120V	TRIAC	>80	14.5W	1,900	325°	131 lm/W	Yes	
EXCLUSIVE TO KEYSTONE KT-LED18T8-48P-8xx-D-VDIM	Plastic Aluminum	4'	120-277V	0-10V	>80	18W	2,100	180°	117 lm/W	Yes	N/A

*8xx denotes several color temperatures available:

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



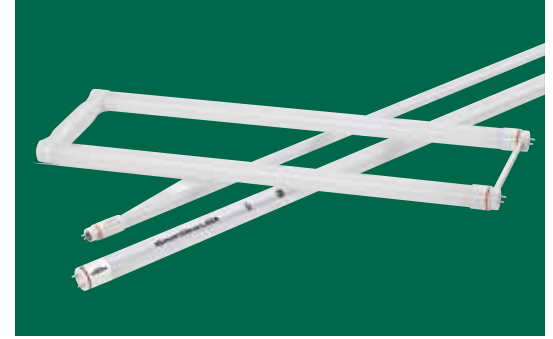
RoHS
Compliant

5 YEAR
WARRANTY

50,000 HOUR
LIFETIME

LINEAR LED TUBES

SmartDrive T8 and T5



BALLAST
COMPATIBLE

SMARTDRIVE LED
PLUG & PLAY WITH BALLAST



Catalog Number	Nominal Length	Bare Lamp Wattage	Nominal Lumens	Bare Lamp Efficacy	System Wattage			Initial Lumens			Safety Coating	Light Spread	Meets DLC	Additional Approvals
					.78 BF	.88 BF	1.18 BF	.78 BF	.88 BF	1.18 BF				
T8 GLASS CONSTRUCTION														
KT-LED8T8-24GC-8xx-S	2'	8W	1,250	138 lm/W	9.3W	10.4W	14.3W	1,125	1,250	1,625	Yes	325°	Yes	NSF
KT-LED10T8-36GC-8xx-S	3'	10W	1,450	145 lm/W	10.9W	13.3W	18.6W	1,300	1,450	1,880	Yes	325°	Yes	
KT-LED11.5T8-48GC-8xx-S	4'	11.5W	1,800	157 lm/W	12.5W	13.9W	24.1W	1,620	1,800	2,330	Yes	325°	Yes	
KT-LED12T8-48G-8xx-S /G2	4'	12W	1,800	150 lm/W	13.3W	15.0W	20.5W	1,620	1,800	2,330	No	325°	Yes	
KT-LED15T8-48GC-8xx-S	4'	15W	2,200	147 lm/W	15.8W	17.5W	24.1W	1,980	2,200	2,840	Yes	325°	Yes	
KT-LED15T8-48G-8xx-S /G2	4'	15W	2,200	147 lm/W	16.0W	18.0W	22.5W	1,980	2,200	2,840	No	325°	Yes	
T8 U-BEND GLASS CONSTRUCTION														
KT-LED15T8-U6GC-8xx-S	6" U-Bend	15W	2,200	147 lm/W	17.7W	20.2W	26.7W	1,930	2,200	2,800	Yes	325°	Yes	NSF

Catalog Number	Nominal Length	Bare Lamp Wattage	Initial Lumens	Bare Lamp Efficacy	System Wattage	Safety Coating	Light Spread	Meets DLC	Additional Approvals
T5 AND T5HO GLASS CONSTRUCTION									
KT-LED13T5HE-48GC-8xx-S	4'	13W	1,800	138 lm/W	17W	Yes	325°	Yes	ETL Intertek
KT-LED25.5T5HO-48GC-8xx-S	4'	25.5W	3,300	129 lm/W	30W	Yes	325°	Yes	

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

Tubes listed above meet DLC 4.0+ requirements, unless otherwise noted.

*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

ComboDrive 2 T8



COMBODRIVE²

PLUG & PLAY OR DOUBLE-ENDED LINE VOLTAGE COMPATIBLE

FEATURES AND BENEFITS

- **Plug & play application:** Compatible with most instant start electronic T8 ballasts (contact Keystone for ballast compatibility list)
- **Bypass ballast application:** Runs on 120-277V line voltage
- Double-ended wiring for bypass application

							Ballast Compatible Application			Line Voltage Application					
Catalog Number	Nominal Length	CRI	Bare Lamp Wattage	Initial Lamp Lumens	Max. THD	Power Factor	Input Voltage	System Wattage			Input Voltage	Lamp Wattage	Safety Coating	Beam Angle	Meets DLC
								.78 BF	.88 BF	1.18 BF					
T8 GLASS CONSTRUCTION															
KT-LED14T8-48G-8xx-X2	4'	≥80	14W	1,700	20%	>0.90	120-277V	16.5W	17W	18.5W	120-277V	14W	No	220°	Yes

*8xx denotes several color temperatures available:

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

ONE TUBE. TWO WAYS TO INSTALL.

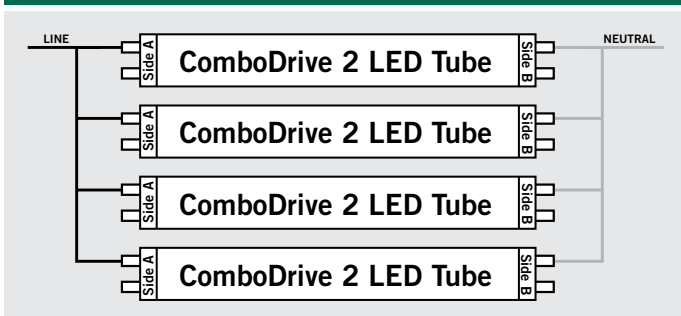
PLUG & PLAY OR BALLAST BYPASS

WIRING DIAGRAMS (Double-Ended Wiring Only)

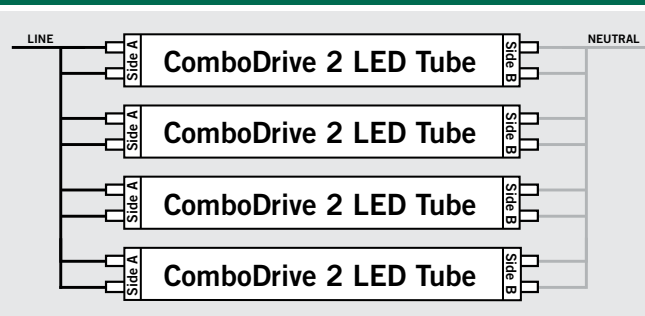
PLUG & PLAY WITH BALLAST

Simply replace the existing fluorescent lamp with a **Keystone ComboDrive LED lamp**. No additional wiring is required. For ballast compatibility questions, please contact Keystone.

BYPASS THE BALLAST (Shunted Lampholders)



BYPASS THE BALLAST (Non-Shunted Lampholders)





COMBODRIVE LED

PLUG & PLAY OR LINE VOLTAGE COMPATIBLE

FEATURES AND BENEFITS

- **Plug & play application:** Compatible with most instant start electronic T8 ballasts (contact Keystone for ballast compatibility list)
- **Bypass ballast application:** Runs on 120-277V line voltage
- Single-ended wiring for bypass application

				Instant Start Ballast Compatible Application						Line Voltage Application			
Catalog Number	Nominal Length	Lamp Wattage	Lumens	System Wattage			Initial Lumens			Input Voltage	Lamp Wattage	Initial Lumens	Meets DLC
				.78 BF	.88 BF	1.18 BF	.78 BF	.88 BF	1.18 BF				
T8 SHATTERPROOF COATED GLASS CONSTRUCTION													
KT-LED9T8-24GC-8xx-X	2'	9W	1,150	11.2W	11.5W	12.1W	1,190	1,190	1,190	120-277V	9W	1,190	No
KT-LED15T8-48GC-8xx-X	4'	15W	1,800	16.2W	17.4W	18.5W	1,730	1,860	2,010	120-277V	15W	1,830	Yes*

*Type B-Mode only

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

ONE TUBE. TWO WAYS TO INSTALL.

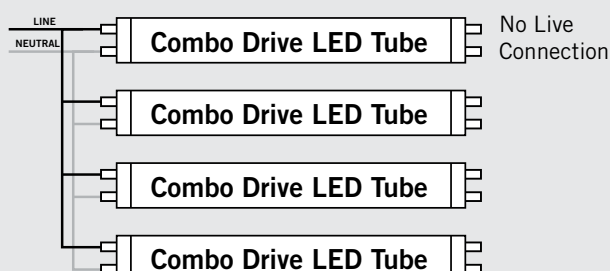
PLUG & PLAY OR BALLAST BYPASS

WIRING DIAGRAMS (Single-Ended Wiring Only)

PLUG & PLAY WITH BALLAST

Simply replace the existing fluorescent lamp with a Keystone ComboDrive LED lamp. No additional wiring is required. For ballast compatibility questions, please contact Keystone.

BYPASS THE BALLAST (Non-Shunted Lampholders Only)



LINEAR LED TUBES

T8 LED Freezer Cabinet Tubes



FEATURES AND BENEFITS

- Ideal for freezer cases, cove, and display applications
- Plugs directly into AC outlet
- ETL Listed
- 50,000+ hour lifetime
- Environmentally friendly: No mercury used
- Instant startup
- Nanoplastic lens for optimal strength and minimal weight
- Includes mounting brackets and 72" power cord
- Operating temperature: -30°C/-22°F to 40°C/104°F
- Bare lamp efficacy >120 lm/W
- Suitable for damp locations
- IP65 Rated

Catalog Number	Length	Input Voltage	Wattage	CRI	Total Lumens	Efficacy	Power Factor
KT-FTLED18T8-48P-8xx	4'	120V	18W	>80	2,250	125 lm/W	>0.9
KT-FTLED22T8-60P-8xx	5'	120V	22W	>80	2,750	125 lm/W	>0.9
KT-FTLED26T8-72P-8xx	6'	120V	26W	>80	3,250	125 lm/W	>0.9

*8xx denotes several color temperatures available:

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

ACCESSORIES (SOLD SEPARATELY)

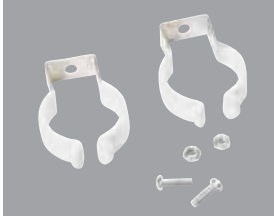
Catalog Number	Description
KT-WH-FT-36	36" extension cord
KT-WH-FT-YS	Y-splitter cord

T8 LED FREEZER TUBE ACCESSORIES

PLUG (INCLUDED)



SUPPORT CLIPS (INCLUDED)

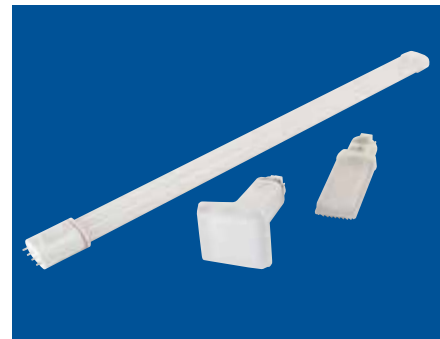
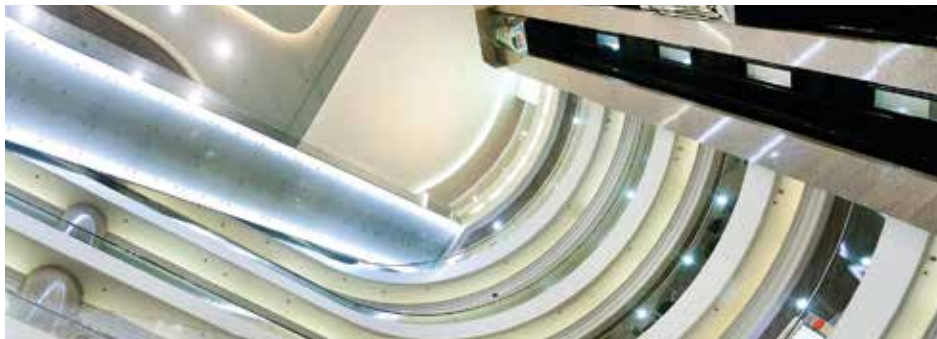


EXTENSION CORD





Y-SPLITTER CORD






SMARTDRIVE LED

PLUG & PLAY
WITH CFL BALLASTS

Catalog Number	Input Voltage	Base	Orientation	CRI	Lamp Wattage	System Wattage	Lumens	Meets DLC	Additional Approvals
4-PIN 18W, 26W, 32W, OR 42W CFL LAMP REPLACEMENT									
KT-LED94P-H-8xx-S	Ballast Dependent	G24q	Horizontal	>80	9W	12W	950	Yes	 
KT-LED94P-V-8xx-S	Ballast Dependent	G24q	Vertical	>80	9W	12W	950	Yes	


DIRECTDRIVE LED

CONNECT TO
LINE VOLTAGE

Catalog Number	Input Voltage	Base	Orientation	CRI	Lamp Wattage	Lumens	Meets DLC	Additional Approvals
2-PIN 13W CFL LAMP REPLACEMENT								
KT-LED62P-H-8xx-D	120-277V	GX23	Horizontal	>80	6W	500	N/A	N/A
2-PIN 18W, 26W, 32W, OR 42W CFL LAMP REPLACEMENT								
KT-LED82P-H-8xx-D	120-277V	G24d	Horizontal	≥83	8W	900	N/A	
KT-LED82P-V-8xx-D	120-277V	G24d	Vertical	≥83	8W	900	N/A	
KT-LED82P-EV-8xx-D	120-277V	G24d	Extended Vertical	≥83	8W	900	N/A	

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	Meets DLC	Additional Approvals
2G11 PLL LAMP REPLACEMENT										
KT-LED17PLL-22G-8xx-D	120-277V	>80	17W	2,200	220°	129 lm/W	>0.9	20%	Yes	

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

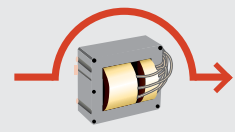
827 800 Series, 2700K **830** 800 Series, 3000K **835** 800 Series, 3500K **840** 800 Series, 4000K **850** 800 Series, 5000K

HID REPLACEMENT LED LAMPS

DirectDrive 360° Lamps



**BUILT-IN SURGE
PROTECTION**



**BYPASS
THE BALLAST**

Catalog Number	Rated Lamp Wattage	Metal Halide Equivalent Wattage	Base Type	Lumens	CRI	IP Rating	Efficacy	Meets DLC	Dimensions	
									Length	Diameter
KT-LED12HID-E26-8xx-D	12W	50W	Medium E26	1,740	>80	IP64	145 lm/W	N/A	4.92"	2.36"
KT-LED18HID-E26-8xx-D	18W	70W	Medium E26	2,610	>80	IP64	145 lm/W	N/A	5.70"	2.36"
KT-LED27HID-E26-8xx-D /G2	27W	100W	Medium E26	3,915	>80	IP64	145 lm/W	N/A	6.70"	2.36"
KT-LED27HID-EX39-8xx-D /G2	27W	100W	Mogul EX39	3,915	>80	IP64	145 lm/W	Yes	7.37"	2.36"
KT-LED36HID-E26-8xx-D /G2	36W	150W	Medium E26	5,400	>80	IP64	150 lm/W	N/A	7.95"	3.34"
KT-LED36HID-EX39-8xx-D /G2	36W	150W	Mogul EX39	5,400	>80	IP64	150 lm/W	Yes	8.62"	3.34"
KT-LED45HID-E26-8xx-D /G2	45W	175W	Medium E26	6,750	>80	IP64	150 lm/W	N/A	9.13"	3.34"
KT-LED45HID-EX39-8xx-D /G2	45W	175W	Mogul EX39	6,750	>80	IP64	150 lm/W	Yes	9.80"	3.34"
KT-LED54HID-EX39-8xx-D /G2	54W	200-250W	Mogul EX39	8,100	>80	IP64	150 lm/W	Yes	9.80"	3.34"
NEW! KT-LED63HID-EX39-8xx-D	63W	250W	Mogul EX39	9,450	>80	IP64	150 lm/W	Yes	10.40"	3.34"
KT-LED80HID-EX39-8xx-D*	80W	320W	Mogul EX39	11,300	>85	IP64	141 lm/W	Yes	11.40"	5.12"
KT-LED100HID-EX39-8xx-D*	100W	400W	Mogul EX39	14,100	>85	IP64	141 lm/W	Yes	12.57"	5.12"

*G2 coming Q2 2019

For all Keystone DirectDrive 360° lamps, input voltage is 120-277V.

*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
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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, 63W, 80W, 100W, 110W, and 115W DirectDrive HID LED lamps.

ACCESSORIES (SOLD SEPARATELY)

Catalog Number	Description
KTSP-10KV	External surge protector; input voltage: 120-277V; maximum peak current: 10kV; IP65 Rated
KT-ADAPTER-E39-E26	Socket base adapter allowing an E26 base lamp to be used in an E39 socket
KTAT-70-480-277	480V to 277V step-down auto-transformer
KTAT-150-480-277-OC	480V to 277V step-down auto-transformer, open core
KTAT-250-480-277	480V to 277V step-down auto-transformer



KTAT-150-480-277-OC
OPEN CORE TRANSFORMER



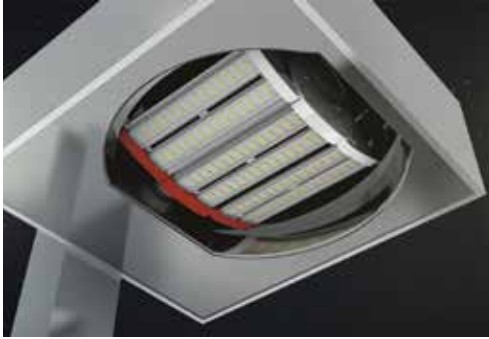
RoHS
Compliant

5YEAR
WARRANTY

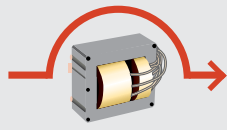
50,000 HOUR
LIFETIME

HID REPLACEMENT LED LAMPS

DirectDrive Xpander 180° Horizontal Lamps



**BUILT-IN SURGE
PROTECTION**



**BYPASS
THE BALLAST**

XPANDER



FEATURES AND BENEFITS

- 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

EC&M
Product of the Year
2018 Category Winner

Catalog Number	Rated Lamp Wattage	Metal Halide Equivalent Wattage	Input Voltage	Base Type	Lumens	CRI	IP Rating	Efficacy	Meets DLC
NEW! KT-LED27HID-H-E26-8xx-D*	27W	100/150W	120-277V	Medium E26	4,100	85	IP64	152 lm/W	N/A
KT-LED27HID-H-EX39-8xx-D	27W	100/150W	120-277V	EX39 Rotatable	4,100	85	IP64	152 lm/W	Yes
NEW! KT-LED45HID-H-E26-8xx-D*	45W	175W	120-277V	Medium E26	6,400	85	IP64	142 lm/W	N/A
KT-LED45HID-H-EX39-8xx-D	45W	175W	120-277V	EX39 Rotatable	6,400	85	IP64	142 lm/W	Yes
KT-LED63HID-H-EX39-8xx-D	63W	250W	120-277V	EX39 Rotatable	9,200	85	IP64	146 lm/W	Yes
KT-LED80HID-H-EX39-8xx-D**	80W	250/320W	120-277V	EX39 Rotatable	10,000	85	IP64	125 lm/W	Yes
KT-LED110HID-H-EX39-8xx-D**	110W	400W	120-277V	EX39 Rotatable	14,000	85	IP64	127 lm/W	Yes

*Available Q2 2019

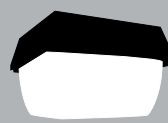
**Not for use in wall pack fixtures

*8xx denotes several color temperatures available. 80W and 110W lamps are not available in 3000K.

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



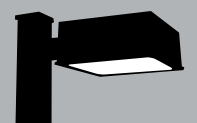
Typical Applications



CANOPY



WALL PACK



SHOEBOX

HID REPLACEMENT LED LAMPS

DirectDrive High Bay Replacement Lamps



RoHS
Compliant

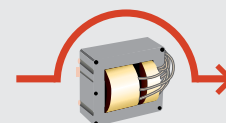
5YEAR
WARRANTY



50,000 HOUR
LIFETIME



BUILT-IN SURGE
PROTECTION



BYPASS
THE BALLAST

FEATURES AND BENEFITS

- Replacement for conventional metal halide lamps
- Suitable for use in fully enclosed fixtures
- Non-dimmable
- Environmentally friendly: no mercury used
- Instant startup
- Integral driver, eliminates the need for external driver or ballast; includes 6kV surge protection
- Operating temperature: -29°C/-20°F to 60°C/140°F

Catalog Number	Rated Lamp Wattage	Metal Halide Equivalent Wattage	Input Voltage	Base Type	Lumens	CRI	IP Rating	Efficacy	Meets DLC
KT-LED80HID-V-E26-8xx-D*	80W	250W	120-277V	E26 Medium	9,600	>80	IP40	120 lm/W	N/A
KT-LED80HID-V-EX39-8xx-D*	80W	250W	120-277V	EX39 Mogul	9,600	>80	IP40	120 lm/W	Yes
KT-LED115HID-V-EX39-8xx-D*	115W	400W	120-277V	EX39 Mogul	15,700	>80	IP20	137 lm/W	Yes

*G2 coming Q2 2019

*8xx denotes several color temperatures available. 115W lamp is not available in 3000K.

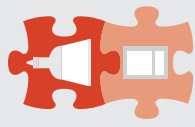
830	800 Series, 3000K	840	800 Series, 4000K	850	800 Series, 5000K
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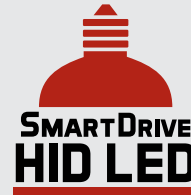
With SmartCool technology, a thermal sensor in the lamp activates during extreme high temperature conditions. Power to the lamp is reduced by up to 20% to cool the lamp and maintain lamp life. Once the sensor reaches an acceptable temperature, the lamp gradually returns to full light output. Included in 54W, 63W, 80W, 100W, 110W and 115W DirectDrive HID LED lamps.



**BUILT-IN SURGE
PROTECTION**



**MAGNETIC HID
BALLAST COMPATIBLE**



FEATURES AND BENEFITS

- **Plug and play installation:** Compatible with existing magnetic HID ballast, no re-wiring required
- 50,000+ hour lifetime (L70); lasts 2.5x longer than standard HID lamps
- Environmentally friendly: no mercury used
- Instant startup
- Operating temperature: -40°C/-40°F to 30°C/86°F
- Suitable for dry and damp locations
- Frosted lens eliminates glare
- Rated for open or enclosed fixtures; suitable for use in fully enclosed fixtures
- Install only in vertical, base-up orientation
- Lower wattage draw can extend lifetime of HID ballast
- When retrofitted, existing fixture changes from a lagging (inductive) power factor source to a leading (capacitive) power factor source; this change may help improve the building's overall electrical power factor
- Does not work on reactor or electronic ballasts

400W METAL HALIDE REPLACEMENT

Catalog Number	Supported Ballast Types	Lamp Wattage	Base Type	Orientation	Input Voltage	Driven by 400W (M59) Ballast		Driven by 320W (M154) Ballast	
						Lumens	System Wattage	Lumens	System Wattage
KT-LED130HID-V-EX39-8xx-S	400W (M59, M135, M155), 320W (M132, M154)	130W	EX39	Vertical	Ballast Dependent	13,000	166W	11,000	138W

175W METAL HALIDE REPLACEMENT

Catalog Number	Supported Ballast Types	Lamp Wattage	Base Type	Orientation	Input Voltage	Driven by 175W (M57) Ballast	
						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



PANEL LIGHTS

FEATURES AND BENEFITS

- Low profile architectural grade design; fits standard T-grid ceilings
- Suitable for surface or suspension mount with optional accessories
- High quality light guide plate offers optimal light diffusion with no risk of yellowing over product lifetime
- Powered by Keystone dimmable LED driver with built-in junction box
- Compatible with Keystone SmartSafe LED emergency back-up
- Over 50% energy savings compared to traditional fluorescent troffers
- LED color binning within 4 SDCM ensures exceptional color consistency between all panels
- Operating temperature range: -20°C/-4°F to 40°C/104°F
- Suitable for damp locations

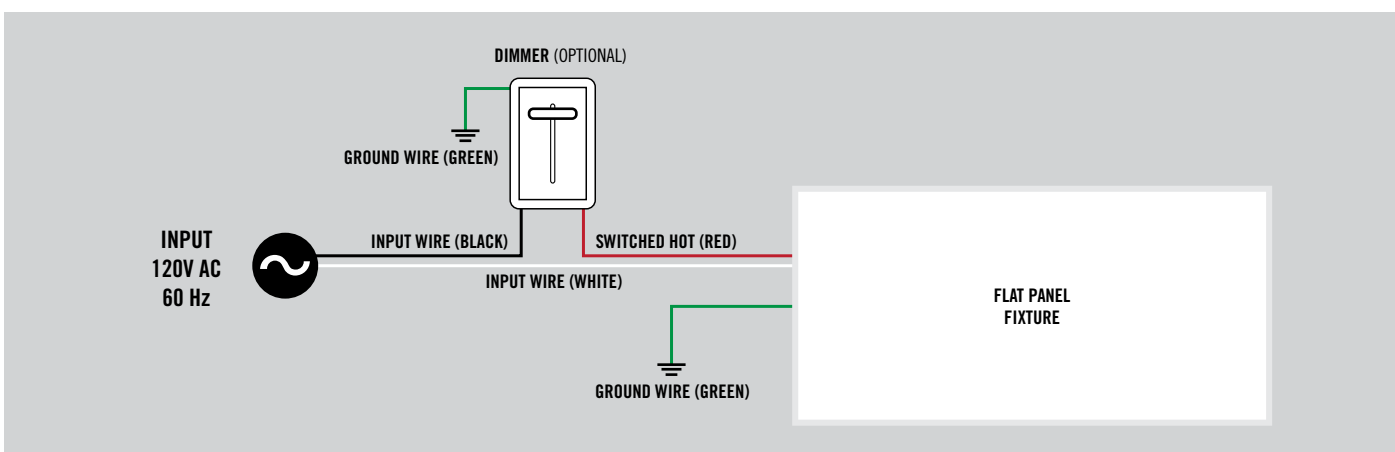
TRIAC/LINE VOLTAGE DIMMING

Catalog Number	Power	Lumens	Efficacy	CRI	Input Voltage	Dimmable	Lifetime	Warranty	DLC Category
2'x2' LED PANEL LIGHTS									
NEW! KT-PLD20-22-8xx-FDIM-P	20W	2,600	130 lm/W	>82	120V	Yes	50,000 Hours	5 Years	Premium
2'x4' LED PANEL LIGHTS									
NEW! KT-PLD30-24-8xx-FDIM-P	30W	3,850	128 lm/W	>82	120V	Yes	50,000 Hours	5 Years	Premium

*8xx denotes several color temperatures available:

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K
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WIRING DIAGRAM FOR TRIAC/LINE VOLTAGE DIMMING PANEL LIGHTS



O-10V DIMMING

Catalog Number	Power	Lumens	Efficacy	CRI	Input Voltage	Dimmable	Lifetime	Warranty	DLC Category
2'x2' LED PANEL LIGHTS									
KT-PLED20-22-8xx-VDIM-P	20W	2,600	130 lm/W	82	120-277V	Yes	60,000 Hours	7 Years	Premium
KT-PLED30-22-8xx-VDIM-P	30W	3,900	130 lm/W	82	120-277V	Yes	60,000 Hours	7 Years	Premium
KT-PLED40-22-8xx-VDIM*	40W	4,150	104 lm/W	82	120-277V	Yes	50,000 Hours	5 Years	Standard
2'x4' LED PANEL LIGHTS									
KT-PLED30-24-8xx-VDIM-P	30W	3,900	130 lm/W	82	120-277V	Yes	60,000 Hours	7 Years	Premium
NEW! KT-PLED40-24-8xx-VDIM*	40W	4,200	105 lm/W	82	120-277V	Yes	50,000 Hours	5 Years	Standard
KT-PLED40-24-8xx-VDIM-P	40W	5,100	128 lm/W	82	120-277V	Yes	60,000 Hours	7 Years	Premium
KT-PLED50-24-8xx-VDIM*	50W	5,300	106 lm/W	82	120-277V	Yes	50,000 Hours	5 Years	Standard
1'x4' LED PANEL LIGHTS									
KT-PLED40-14-8xx-VDIM-P	40W	5,050	126 lm/W	82	120-277V	Yes	60,000 Hours	7 Years	Premium
KT-PLED40-14-8xx-VDIM*	40W	4,150	104 lm/W	82	120-277V	Yes	50,000 Hours	5 Years	Standard

*All DLC standard panels may ship as a Generation 2 (G2 at end of the catalog number) starting in Q1 2019

*8xx denotes several color temperatures available:

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K
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FIXTURE ACCESSORIES (SOLD SEPARATELY)

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	Mounting bracket designed for use with SmartSafe LED emergency battery back-up KT-EMRG-LED-5-500-EN /DF and KT-EMRG-LED-12-1200-EN /DF



SMART SAFE LED EMERGENCY BACK-UP for Panel Lights*

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

*Available for factory installation



LINEAR HIGH BAY FIXTURES

FEATURES AND BENEFITS

- Architectural grade compact design
- Powered by Keystone 0-10V dimming LED drivers
- Frosted lens eliminates glare
- V-hook and chain mounting accessories included
- 0-10V dimming, 10% minimum
- Compatible with Keystone SmartSafe LED emergency back-up
- Compatible with Keystone 480-277V step down transformers
- Compatible with Keystone occupancy sensors
- Ambient operating temperature: -20°C/-4°F to 50°C/122°F
- UL Listed 1598: Suitable for dry and damp locations
- THD: <20%; power factor > 0.95
- LED chip lifetime, L70 >100,000 hours @ 25°C/77°F ambient fixture temperature

Catalog Number	CRI	Input Voltage	Wattage	Lumen Output	Efficacy	DLC Category
2' LINEAR HIGH BAY FIXTURES						
KT-HBLED90-2F-8xx-VDIM-P	>82	120-277V	90W	11,800	131 lm/W	Premium
KT-HBLED105-2F-8xx-VDIM-P	>82	120-277V	105W	13,650	130 lm/W	Premium
KT-HBLED135-2F-8xx-VDIM-P	>82	120-277V	135W	17,700	131 lm/W	Premium
KT-HBLED175-2F-8xx-VDIM-P	>82	120-277V	175W	23,100	132 lm/W	Premium
KT-HBLED215-2F-8xx-VDIM-P	>82	120-277V	215W	28,160	131 lm/W	Premium
4' LINEAR HIGH BAY FIXTURES						
KT-HBLED320-4F-8xx-VDIM-P	>82	120-277V	320W	42,000	131 lm/W	Premium

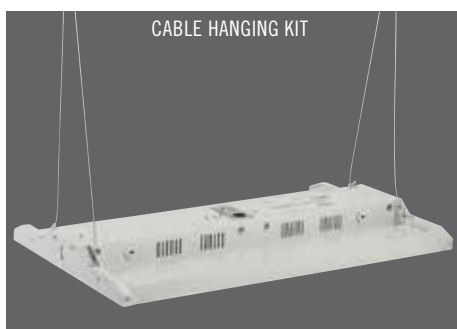
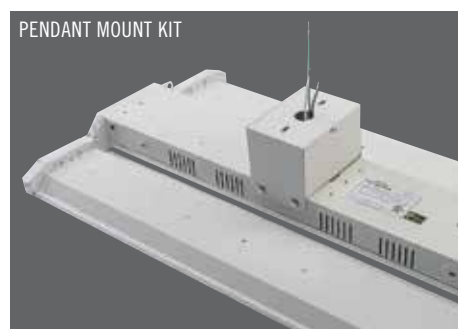
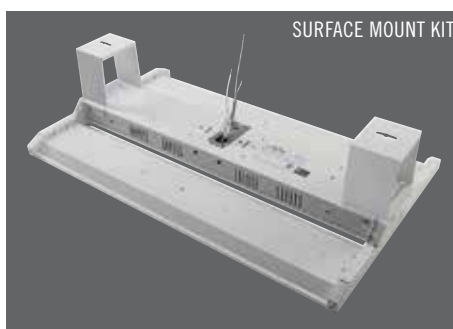
* **8xx** denotes several color temperatures available:

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

Keystone SmartSafe LED emergency back-up is available for factory installation on our high bay fixtures. Contact Keystone for details.

FIXTURE ACCESSORIES (SOLD SEPARATELY)

Catalog Number	Description
KT-HBLED-PM-1-KIT	Pendant mount kit for LED high bay fixtures; fits all Keystone 2F high bay fixtures
KT-HBLED-SM-1-KIT	Surface mount kit for LED high bay fixtures; fits all Keystone 2F high bay fixtures
KT-HBLED-CABLE-KIT	Cable mount kit for LED high bay fixtures; fits all Keystone 2F high bay fixtures
KT-HBLED-WG-1-KIT	Wire guard for LED high bay fixtures; fits 90W, 105W, 135W, and 175W Keystone 2F high bay fixtures
KT-HBLED-WG-2-KIT	Wire guard for LED high bay fixtures; fits 215W Keystone 2F high bay fixtures
KT-HBLED-WG-3-KIT	Wire guard for LED high bay fixtures; fits 320W Keystone 2F high bay fixtures
KT-HBLED-EM-BR-KIT	Mounting bracket designed for use with SmartSafe LED emergency back-up KT-EMRG-LED-5-500-EN /DF and KT-EMRG-LED-12-1200-EN /DF



SMART SAFE LED EMERGENCY BACK-UP for Linear High Bay

Catalog Number	Wire Type	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			
		Input Voltage	Power Factor	Max. Current	Output Power	Rated Output Current	Output Voltage	LED Module Included
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

OCCUPANCY SENSOR for Linear High Bay

Catalog Number	Frequency	Description
HBE-PIR-120/277/347	50/60Hz	Passive infrared (PIR) sensing technology with adjustable controls for time delay and day lighting

STEP DOWN TRANSFORMER for Linear High Bay

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			Description	Additional Approvals
	Input Voltage	Input Current at Max. Load	Input Current at No Load	Output Voltage	Max. Load	Max Output Current		
KTAT-250-480-277 /SF*	480V	0.57A	0.16A	277V	250VA	0.90A	Fully enclosed, single flex	
	347V	0.57A	0.11A	200V	180VA	0.90A		

*Available Q2 2019



ROUND HIGH BAY FIXTURES

FEATURES AND BENEFITS

- IP65 rated, wet location
- Powered by Keystone 0-10V dimming LED driver
- Ambient operating temperature: -40°C/-40°F to 45°C/113°F
- LED chip lifetime, L70 >100,000 hours @ 25°C ambient fixture temperature
- Ring bolt mounting accessory included with safety hanging kit
- 0-10V dimming, 10% minimum
- THD: <20%
- 6' cord for input and dimming wires
- Low optical flicker
- Built in 4kV surge protection

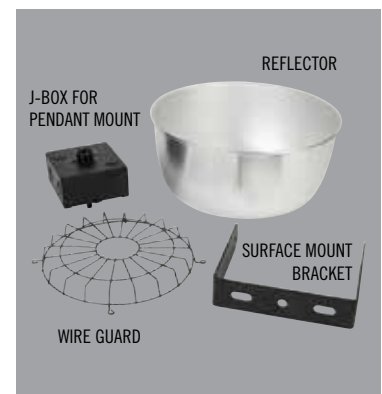
Catalog Number	Diameter	Input Voltage	Wattage	Lumen Output	CRI	Power Factor	Efficacy	Beam Angle
KT-RHLED100-10C-8xx-VDIM-P	10"	120-277V	100W	13,100	>82	>0.92	131 lm/W	110°
KT-RHLED150-12C-8xx-VDIM-P	12"	120-277V	150W	20,000	>82	>0.92	133 lm/W	110°
KT-RHLED200-14C-8xx-VDIM-P	14"	120-277V	200W	26,600	>82	>0.92	133 lm/W	110°

*8xx denotes several color temperatures available:

840	800 Series, 4000K	850	800 Series, 5000K
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ACCESSORIES (SOLD SEPARATELY)

	Catalog Number	Description
Mounting Kits	KT-RHLED-JBOX-PM	J-box optimized for pole pendant application
	KT-RHLED-SM-1-KIT	Surface mount kit for 100W round high bay fixtures
	KT-RHLED-SM-2-KIT	Surface mount kit for 150W round high bay fixtures
	KT-RHLED-SM-3-KIT	Surface mount kit for 200W round high bay fixtures
Wire Guards	KT-RHLED-WG-1-KIT	Wire guard for 100W round high bay fixtures
	KT-RHLED-WG-2-KIT	Wire guard for 150W round high bay fixtures
	KT-RHLED-WG-3-KIT	Wire guard for 200W round high bay fixtures
Reflectors	KT-RHLED-AR90-1	Aluminum dome reflector for 100W round high bay fixtures, 90° beam angle
	KT-RHLED-AR90-2	Aluminum dome reflector for 150W round high bay fixtures, 90° beam angle
	KT-RHLED-AR90-3	Aluminum dome reflector for 200W round high bay fixtures, 90° beam angle





WASHDOWN HIGH BAY FIXTURES



FEATURES AND BENEFITS

- **IP69K rated: Wet location for high pressure cleaning**
- **ETL Sanitation listed: NSF/ANSI standard 2 food equipment (splash zone and non-food zone)**
- Powered by Keystone 0-10V dimming LED driver
- Ambient operating temperature: -40°C/-40°F to 40°C/104°F
- LED chip lifetime, L70 >100,000 hours @ 25°C ambient fixture temperature
- Ring bolt mounting accessory included
- 0-10V dimming, 10% minimum
- THD: <20%
- 6' cord for input and dimming wires
- Built-in 4kV surge protection

Catalog Number	Diameter	Input Voltage	Wattage	Lumen Output	CRI	Power Factor	Efficacy	Beam Angle
KT-RWDLED150-17C-8xx-VDIM-P	17"	120-277V	150W	19,800	>82	>0.92	132 lm/W	90°

***8xx** denotes several color temperatures available:

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



WRAP FIXTURES

FEATURES AND BENEFITS

- Powered by Keystone 0-10V dimming LED drivers
- Standard wrap fixture has a prismatic style lens, curved wrap fixture has a frosted lens
- 0-10V dimming, 10% minimum
- Compatible with Keystone SmartSafe LED emergency back-up
- Compatible with Keystone 480-277V step down transformers
- Compatible with Keystone occupancy sensors
- Ambient operating temperature: -20°C/-4°F to 50°C/122°F
- UL Listed 1598: Suitable for dry and damp locations
- THD: <20%
- Power factor > 0.95
- LED chip lifetime, L70 >100,000 hours @ 25°C/77°F ambient fixture temperature

Keystone Catalog Number	Nominal Length	CRI	Input Voltage	Wattage	Lumen Output	Efficacy	DLC Category
STANDARD WRAP FIXTURES							
KT-WLED33-4-8xx-VDIM-P	4'	>82	120-277V	33W	4,290	130 lm/W	Premium
CURVED WRAP FIXTURES							
KT-CWLED40-4-8xx-VDIM-P	4'	>82	120-277V	40W	5,200	130 lm/W	Premium

* **8xx** denotes several color temperatures available:

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K
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STANDARD WRAP FIXTURE



CURVED WRAP FIXTURE





MICRO STRIP FIXTURES



FEATURES AND BENEFITS

- Powered by Keystone 0-10V dimming LED drivers
- Smooth diffused lens for an even appearance
- 0-10V dimming, 10% minimum
- Compatible with Keystone SmartSafe LED emergency back-up
- Compatible with Keystone 480-277V step down transformers (remote mount only)
- Compatible with Keystone occupancy sensors
- Ambient operating temperature: -20°C/-4°F to 50°C/122°F
- UL Listed 1598: Suitable for dry and damp locations
- THD: <20%
- Power factor > 0.95
- LED chip lifetime, L70 >100,000 hours @ 25°C/77°F ambient fixture temperature

Fluorescent Equivalent	Keystone Catalog Number	CRI	Input Voltage	Wattage	Lumen Output	Efficacy	DLC Category
2' MICRO STRIP FIXTURES							
2xF17T8	KT-MSLED19-2-8xx-VDIM-P	>82	120-277V	19W	2,508	132 lm/W	Premium
4' MICRO STRIP FIXTURES							
1xF32T8	KT-MSLED18-4-8xx-VDIM-P	>82	120-277V	18W	2,340	130 lm/W	Premium
2xF32T8	KT-MSLED28-4-8xx-VDIM-P	>82	120-277V	28W	3,696	132 lm/W	Premium
2xF49T5HO / F54T5HO	KT-MSLED44-4-8xx-VDIM-P	>82	120-277V	44W	5,764	131 lm/W	Premium
8' MICRO STRIP FIXTURES							
4xF32T8	KT-MSLED54-8-8xx-VDIM-P	>82	120-277V	54W	7,210	134 lm/W	Premium

*8xx denotes several color temperatures available:

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K
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Included Accessories: Mounting brackets, hardware, and junction box decorative cover



ACCESSORIES (SOLD SEPARATELY)

Catalog Number	Description
HBE-PIR-120/277/347	Passive infrared (PIR) sensing technology with adjustable controls for time delay and day lighting
KT-MSLED-VH-KIT	V-hook and chain mounting kit



CENTER BASKET TROFFER FIXTURES

FEATURES AND BENEFITS

- Architectural grade center basket volumetric design
- Powered by Keystone 0-10V dimming drivers
- Smooth diffused lens for even appearance
- 0-10V dimming, 10% minimum
- Compatible with Keystone SmartSafe LED emergency back-up
- Ambient temperature: -20°C/-4°F to 50°C/122°F
- UL Listed 1598: suitable for dry and damp locations
- THD: <20%
- Power factor: >0.95
- LED chip lifetime: L70>100,000 hours @ 25°C/77°F ambient fixture temperature
- Low optical flicker
- Large access plate of back side of fixture for easy installation and servicing

Catalog Number	CRI	Input Voltage	Wattage	Lumen Output	Efficacy	DLC Category
2'x2' FIXTURES						
KT-CBLED18-22A-8xx-VDIM-P	>82	120-277V	18W	2,300	128 lm/W	Premium
KT-CBLED24-22A-8xx-VDIM-P	>82	120-277V	24W	3,050	127 lm/W	Premium
2'x4' FIXTURES						
KT-CBLED24-24A-8xx-VDIM-P	>82	120-277V	24W	3,050	127 lm/W	Premium
KT-CBLED30-24A-8xx-VDIM-P	>82	120-277V	30W	3,870	129 lm/W	Premium
KT-CBLED38-24A-8xx-VDIM-P	>82	120-277V	38W	4,825	127 lm/W	Premium
KT-CBLED45-24A-8xx-VDIM-P	>82	120-277V	45W	5,760	128 lm/W	Premium
1'x4' FIXTURES						
KT-CBLED34-14A-8xx-VDIM-P	>82	120-277V	34W	4,390	129 lm/W	Premium

*8xx denotes several color temperatures available:

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K
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VAPOR TIGHT FIXTURES



FEATURES AND BENEFITS

- Traditional narrow design, suitable for rugged demanding applications
- Powered by Keystone 0-10V dimming drivers
- IP65 Rated, suitable for wet locations
- Smooth diffused lens for even appearance
- Stainless steel lens clips
- 0-10V dimming, 10% minimum
- Ambient temperature: -20°C/-4°F to 50°C/122°F
- UL Listed 1598: suitable for dry and damp locations
- THD: <20%
- Power factor: >0.95
- LED chip lifetime, L70>100,000 hours @ 25°C/77°F ambient fixture temperature
- Includes mounting hardware

Catalog Number	CRI	Input Voltage	Wattage	Lumen Output	Efficacy	DLC Category
2' VAPOR TIGHT FIXTURES						
KT-VTLED19-2A-8xx-VDIM-P	>82	120-277V	19W	2,470	130 lm/W	Premium
4' VAPOR TIGHT FIXTURES						
KT-VTLED18-4A-8xx-VDIM-P	>82	120-277V	18W	2,340	130 lm/W	Premium
KT-VTLED28-4A-8xx-VDIM-P	>82	120-277V	28W	3,670	131 lm/W	Premium
KT-VTLED44-4A-8xx-VDIM-P	>82	120-277V	44W	5,720	130 lm/W	Premium
KT-VTLED63-4A-8xx-VDIM-P	>82	120-277V	63W	8,065	128 lm/W	Premium
8' VAPOR TIGHT FIXTURES						
KT-VTLED54-8A-8xx-VDIM-P	>82	120-277V	54W	7,020	130 lm/W	Premium
KT-VTLED90-8A-8xx-VDIM-P	>82	120-277V	90W	11,610	129 lm/W	Premium

* **8xx** denotes several color temperatures available:

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



ARMOR LIGHT

FEATURES AND BENEFITS

- 50,000 hour lifetime
- Frosted lens to reduce glare
- Includes a 3' cord and clip for maximum versatility when hanging the fixture
- /G2 items are linkable
- Omni-directional light distribution
- 6kV surge protection
- Strong, durable, lightweight construction suitable for construction areas, outdoor activity lighting
- Isolated driver for better heat dissipation
- Driver with heat sink silicone is waterproof, dust-proof, and anti-mosquito
- Operating temperature: -40°C/-40°F to 60°C/140°F

Catalog Number	Power Consumption	CRI	Input Voltage	Color Temperature	Total Lumens	Efficacy	IP Rating	Metal Halide HID Equivalent
KT-TFLED60-850	60W	≥80	120V	5000K	7,000	117 lm/W	IP64	175W
KT-TFLED100-850 /G2	100W	≥80	120V	5000K	11,500	115 lm/W	IP64	400W



SHOP LIGHTS

FEATURES AND BENEFITS

- Linkable
- 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
- 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	2,600	>80
KT-SHLED40-48-840 /G2	4'	120V	40W	4000K	4,200	>80

EMERGENCY BACK-UP SOLUTIONS

Typical Installations

AC LED EMERGENCY BACK-UP FOR TYPE B LED TUBES

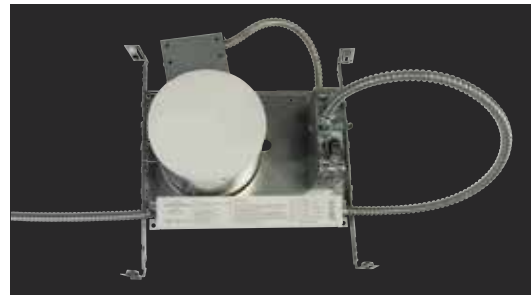
Optimized for Keystone single-ended DirectDrive LED tubes and 10.5W G2 DirectDrive DX2 tubes



SHOWN INSTALLED IN A WRAP FIXTURE

AC LED EMERGENCY BACK-UP FOR RECESSED AND INTEGRATED FIXTURES

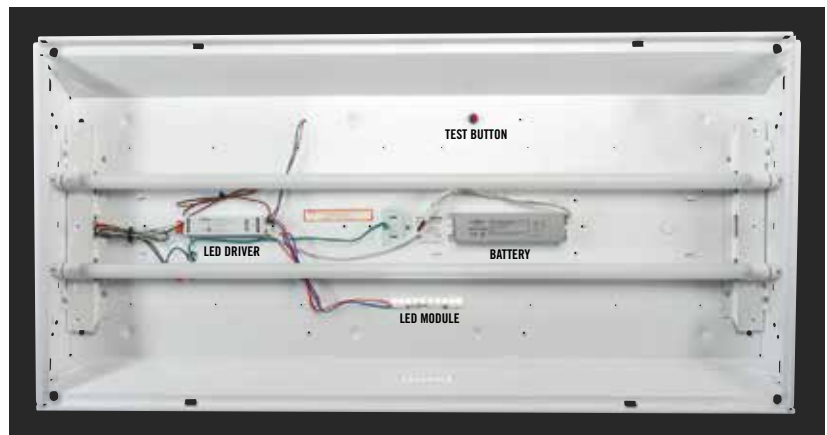
Optimized for recessed LED downlight fixtures and retrofit kits, and Keystone DirectDrive compact lamps



SHOWN INSTALLED IN A RECESSED FIXTURE

STANDARD LED EMERGENCY BACK-UP KIT

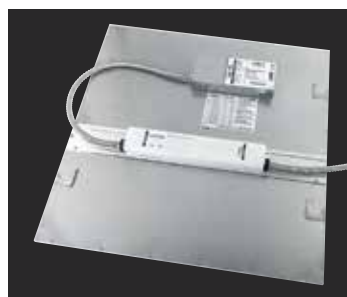
Enables emergency lighting solutions to be utilized in a variety of lighting fixtures including both LED and fluorescent



SHOWN INSTALLED IN A TROFFER FIXTURE WITH THE LED MODULE PROVIDING EMERGENCY LIGHTING BY BYPASSING THE TUBES

1 PIECE ENCLOSED LED EMERGENCY BACK-UP

Field installable solution for use in many fixture types; can also be remote mounted



SHOWN INSTALLED IN A FLAT PANEL FIXTURE WITH MOUNTING BRACKET



SHOWN INSTALLED IN A HIGH BAY FIXTURE WITH MOUNTING BRACKET

EMERGENCY BACK-UP SOLUTIONS

Smart Safe AC LED Emergency Back-Up



SMART//SAFE AC

LED EMERGENCY BACK-UP

LED EMERGENCY BACK-UP FOR INTEGRATED LED PRODUCTS

Enables emergency lighting solutions to be incorporated into a variety of lighting fixtures using integrated LED lighting components where only the input wires of the LED load are accessible.

FEATURES AND BENEFITS

- Illuminates entire LED load at reduced output under emergency mode
- 2-in-1 LED test switch and indicator light provides instant reassurance that the system is working
- One-piece design with metal housing
- Evaluated to UL 924 requirements
- Reliable operation with minimum 90 minute duration

OPTIMIZED FOR TYPE B LED TUBES

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			
	Input Voltage	Power Factor	Maximum Current	Maximum Output Power	Rated Output Current	Output Voltage	LED Module Included
KT-EMRG-LED-5-500-AC	120-277V	≥0.35	100mA @ 120V	5W	Load Dependant	40~300V	No

FOR USE WITH

DIRECTDRIVE LED

Optimized for Keystone single-ended DirectDrive LED tubes.

Also compatible with KT-LED10.5T8-48G-8xx-DX2 /G2.
Contact Keystone for details on functioning with other Type B LED tubes.

OPTIMIZED FOR RECESSED AND INTEGRATED FIXTURES

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			
	Input Voltage	Power Factor	Maximum Current	Maximum Output Power	Rated Output Current	Output Voltage	LED Module Included
KT-EMRG-LED-5-500-AC /DF	120-277V	≥0.35	100mA @ 120V	5W	Load Dependant	40~300V	No

FOR USE WITH

RECESSED LED

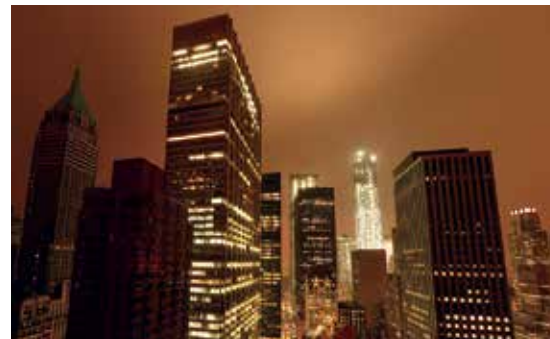
DIRECTDRIVE LED
CONNECT TO LINE VOLTAGE

Optimized for recessed LED downlight fixtures and retrofit kits and Keystone DirectDrive compact lamps.

Contact Keystone for details on functioning with other product types.

EMERGENCY BACK-UP SOLUTIONS

2-Piece Smart Safe LED Emergency Back-Up Kits



SMART//SAFE

LED EMERGENCY BACK-UP



2017
NAILED
Best Overall
Product

EC&M CATEGORY WINNER
PRODUCT
OF THE YEAR **17**



2017
NAILED
Best Driver/
Ballast

STANDARD LED EMERGENCY BACK-UP KITS

INCLUDE EMERGENCY LED DRIVER, BATTERY, AND LED MODULE

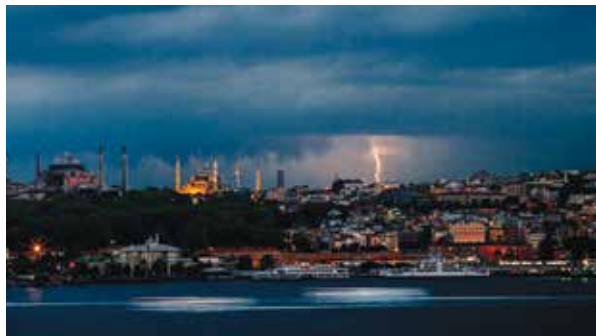
The LED emergency back-up kit enables emergency lighting solutions to be incorporated into a variety of lighting fixtures including both LED and fluorescent.

FEATURES AND BENEFITS

- Includes LED emergency driver, battery, and LED module
- Included LED module allows the system to bypass the tubes
- Adds emergency lighting capability to multiple fixture types
- Battery is separate from the driver
- Battery pack has a metal shroud so it can be mounted remotely from the fixture
- 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

Catalog Number	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			LED Module Included
	Input Voltage	Power Factor	Maximum Current	Maximum 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
12W CALIFORNIA COMPLIANT (COMPLIES WITH CEC T20 EFFICIENCY REQUIREMENTS)							
KT-EMRG-LED-12C-1200-K1 *	120-277Vac	>0.9	0.050A @ 120V	12W	600mA-206mA	20-60Vdc	Yes

*Available Q2 2019



SMART//SAFE

LED EMERGENCY BACK-UP

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).

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
- UL Classified for field installation
- Reliable operation with minimum 90 minute duration

		INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS			
Catalog Number	Wire Type	Input Voltage	Power Factor	Max. Current	Output Power	Rated Output Current	Output Voltage	LED Module Included
5W								
KT-EMRG-LED-5-500-EN	Standard Side Exit	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20~54Vdc	No
KT-EMRG-LED-5-500-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.051A @ 120V	5W	250mA-100mA	20~54Vdc	No
12W								
KT-EMRG-LED-12-1200-EN	Standard Side Exit	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	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
12W CALIFORNIA COMPLIANT (COMPLIES WITH CEC T20 EFFICIENCY REQUIREMENTS)								
KT-EMRG-LED-12C-1200-EN	Standard Side Exit	120-277Vac	≥0.5	0.051A @ 120V	12W	550mA-245mA	20~54Vdc	No
KT-EMRG-LED-12C-1200-EN /DF	Dual Flex Cable	120-277Vac	≥0.5	0.050A @ 120V	12W	600mA-250mA	20~54Vdc	No



Each kit includes (1) fixture assembly body with pre-wired LED driver, (2) end plates, (2) side plates, and (4) self-tapping screws

2'x2' LED DOORFRAME RETROFIT KIT, 23W (0-10V Dimming)

Input Voltage	Catalog Number	Dimming Type	Wattage	Lumen Output	CRI	THD	Power Factor	Efficacy	Meets DLC
120-277V	KT-RKIT23-22D-8xx-VDIM	0-10V	23W	3,070	>80	<20%	>0.9	134 lm/W	Yes

2'x4' LED DOORFRAME RETROFIT KIT, 30W (0-10V Dimming)

Input Voltage	Catalog Number	Dimming Type	Wattage	Lumen Output	CRI	THD	Power Factor	Efficacy	Meets DLC
120-277V	KT-RKIT30-24D-8xx-VDIM	0-10V	30W	3,910	>80	<20%	>0.9	130 lm/W	Yes

2'x4' LED DOORFRAME RETROFIT KIT, 36W (0-10V Dimming)

Input Voltage	Catalog Number	Dimming Type	Wattage	Lumen Output	CRI	THD	Power Factor	Efficacy	Meets DLC
120-277V	KT-RKIT36-24D-8xx-VDIM	0-10V	36W	4,890	>80	<20%	>0.9	136 lm/W	Yes

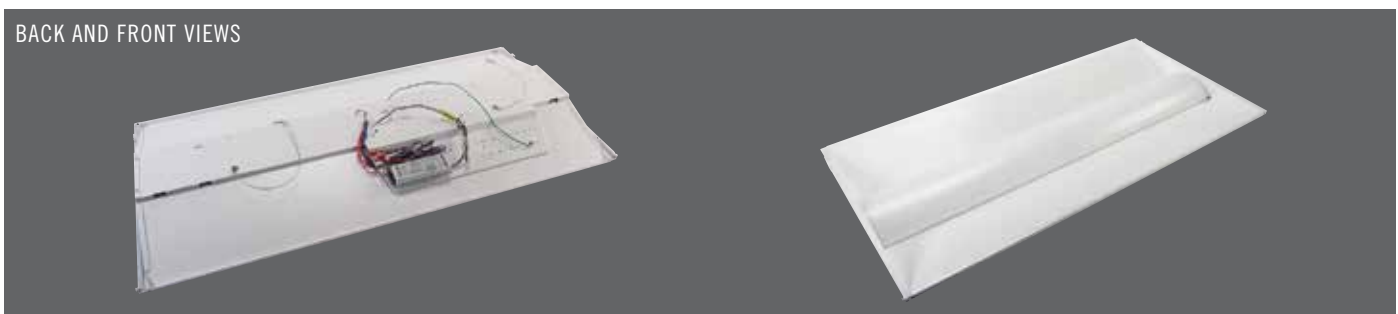
*8xx denotes several color temperatures available:

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K
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FEATURES AND BENEFITS

- Used to upgrade existing 2'x2' or 2'x4' fluorescent recessed troffer without modifying existing fixture mounting
- Architectural grade design
- Powered by a Keystone 0-10V dimming LED driver
- Compatible with Keystone SmartSafe LED emergency back-up
- Suitable for damp locations
- Operating temperature range: -20°C/-4°F to 50°C/122°F
- Over 50% energy savings as compared to traditional fluorescent troffers

BACK AND FRONT VIEWS



RETROFIT INSTALLATION INSTRUCTIONS FOR 2'x2' AND 2'x4' DOORFRAME TROFFER FIXTURES

STEP 1: Shut off power to the fixture. Open the fixture lens and remove the existing fluorescent lamps, ballast cover, and lens. Disconnect the ballast from the building's line voltage.



STEP 2: Install the support brackets (x2) and secure with tek screws. **(Optional):** Install side plates (x2). This step is dependent on whether or not there are gaps between the fixture and the existing ceiling grid.



STEP 3: Insert the doorframe of the retrofit into the keyholes of the support brackets and slide the unit into place. Connect power from building to quick disconnect on retrofit kit.



STEP 4: Swing the doorframe assembly up into the fixture frame.



STEP 5: Secure the doorframe kit by locking in the latches.



STEP 6: Restore power to the fixture.



For more information, watch the video at [keystonetech.com/video](https://www.keystonetech.com/video)



Each 8' kit includes (2) retrofit housings with pre-wired LED drivers, (3) installation brackets, (2) lenses, (1) label, and installation instructions
Each 4' kit includes (1) retrofit housing with pre-wired LED driver, (2) installation brackets, (1) lens, (1) label, and installation instructions

4' LED RETROFIT STRIP KIT (0-10V Dimming)

Input Voltage	Catalog Number	Dimming Type	Wattage	Lumen Output	CRI	THD	Power Factor	Efficacy	Meets DLC
120-277V	KT-RKIT32-4S-8xx-VDIM	0-10V	32W	4,350	>80	<20%	>0.9	136 lm/W	Yes

8' LED RETROFIT STRIP KITS (0-10V Dimming)

Input Voltage	Catalog Number	Dimming Type	Wattage	Lumen Output	CRI	THD	Power Factor	Efficacy	Meets DLC
120-277V	KT-RKIT46-8S-8xx-VDIM	0-10V	46W	6,200	>80	<20%	>0.9	134 lm/W	Yes
120-277V	KT-RKIT55-8S-8xx-VDIM	0-10V	55W	7,360	>80	<20%	>0.9	133 lm/W	Yes

*8xx denotes several color temperatures available:

835	800 Series, 3500K	840	800 Series, 4000K	850	800 Series, 5000K
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FEATURES AND BENEFITS

- Used to upgrade existing 4"-5.25" wide strip fixtures without modifying the existing fixture mounting
- Architectural grade design
- Powered by a Keystone 0-10V dimming LED driver
- Compatible with Keystone SmartSafe LED emergency back-up
- Suitable for damp locations
- Operating temperature range: -20°C/-4°F to 50°C/122°F
- 8' kits are (2) 4' channels linked together
- Over 50% energy savings as compared to traditional fluorescent strips

TYPICAL INSTALLATION APPLICATION



RETROFIT INSTALLATION INSTRUCTIONS FOR 4' AND 8' INDOOR STRIP FIXTURES

STEP 1: Shut off power to the fixture. Remove the existing fluorescent lamps and the ballast cover. Disconnect the ballast from the building's line voltage.



STEP 2: Cut the wire leads coming from the sockets and remove the sockets and socket bars on both ends of the fixture.



STEP 3: Break apart the 1-piece mounting bracket kit into 3 individual pieces. Install a small bracket at each end of the fixture and the large bracket at the center of fixture (for 8' fixtures only). Bend the brackets over the fixture to fit the exact width and fasten them to the fixture with the provided tek screws.



STEP 4: Connect power from building to quick disconnect on retrofit kit. Bring retrofit kit up to fixture frame.



STEP 5: Fasten the pans to the strip fixture with a quarter turn (provided) on each end.



STEP 6: Install the lens by gently squeezing it into the grooved edge of the pan. Restore power to the fixture.



For more information, watch the video at [keystonetech.com/video](https://www.keystonetech.com/video)



High efficacy linear LED modules pre-mounted into aluminum extension via a patented manufacturing method
Each kit is DLC listed and includes (1) LED driver, (2) LED modules, mounting hardware, (2) optional diffused lenses, and accessories

80 CRI LINEAR KITS (0-10V Dimming)

Input Voltage	CRI	AlumaGroove Kit Catalog Number	Nominal Length	No. of Modules	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	>80	KT-RKIT-2AG22-3000-8xx-VDIM	2'	2	22W	2,997	137 lm/W	163 lm/W
120-277V	>80	KT-RKIT-2AG22-4000-8xx-VDIM	2'	2	31W	3,989	130 lm/W	155 lm/W
120-277V	>80	KT-RKIT-2AG22-5000-8xx-VDIM	2'	2	42W	5,116	122 lm/W	145 lm/W
120-277V	>80	KT-RKIT-2AG44-4000-8xx-VDIM	4'	2	29W	4,232	144 lm/W	171 lm/W
120-277V	>80	KT-RKIT-2AG44-5000-8xx-VDIM	4'	2	36W	5,171	142 lm/W	169 lm/W
120-277V	>80	KT-RKIT-2AG44-6000-8xx-VDIM	4'	2	45W	6,221	138 lm/W	164 lm/W

*8xx denotes several color temperatures available:

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

90 CRI LINEAR KITS (0-10V Dimming)

Input Voltage	CRI	AlumaGroove Kit Catalog Number	Nominal Length	No. of Modules	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	>90	KT-RKIT-2AG22-2500-9xx-VDIM	2'	2	22W	2,462	113 lm/W	134 lm/W
120-277V	>90	KT-RKIT-2AG22-3200-9xx-VDIM	2'	2	31W	3,239	106 lm/W	126 lm/W
120-277V	>90	KT-RKIT-2AG22-4200-9xx-VDIM	2'	2	42W	4,157	99 lm/W	118 lm/W
120-277V	>90	KT-RKIT-2AG44-3500-9xx-VDIM	4'	2	30W	3,438	117 lm/W	139 lm/W
120-277V	>90	KT-RKIT-2AG44-4200-9xx-VDIM	4'	2	36W	4,202	115 lm/W	137 lm/W
120-277V	>90	KT-RKIT-2AG44-5000-9xx-VDIM	4'	2	45W	5,038	112 lm/W	133 lm/W

*9xx denotes 900 Series and an available color temperature of 3000K

FEATURES AND BENEFITS

- Ideal retrofit for vapor tight fixtures

TYPICAL INSTALLATION APPLICATION





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	Total System Power	Total Lumens per Module	Total System Lumens	Total System Efficacy	Module Efficacy
120V	KT-RKIT-HCP-8-650-8xx-FDIM	6.9W	720	720	104 lm/W	130 lm/W

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

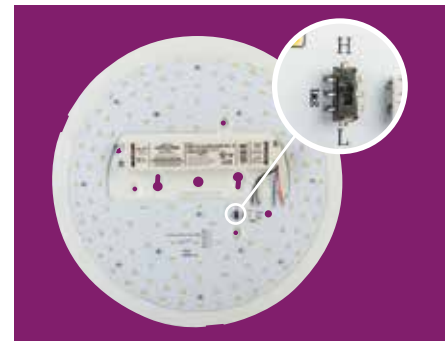
Input Voltage	LED Retrofit Kit Catalog Number	Total System Power	Total Lumens per Module	Total System Lumens	Total System Efficacy	Module Efficacy
120V	KT-RKIT-HCP-8-1150-8xx-FDIM	10.6W	1,180	1,180	111 lm/W	138 lm/W

*8xx denotes several color temperatures available:

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

Input Voltage	LED Retrofit Kit Catalog Number	Dimming Type	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120V	KT-RKIT-CP-8-1600-8xx-FDIM	Phase Control	16.2W	1,800	111 lm/W	138 lm/W
120-277V	KT-RKIT-CP-8-1600-8xx-VDIM	0-10V	16.2W	1,800	111 lm/W	138 lm/W

8", 2200 LUMEN CIRCULAR

Input Voltage	LED Retrofit Kit Catalog Number	Dimming Type	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120V	KT-RKIT-CP-8-2200-8xx-FDIM	Phase Control	20.4W	2,240	109 lm/W	137 lm/W
120-277V	KT-RKIT-CP-8-2200-8xx-VDIM	0-10V	20.4W	2,240	109 lm/W	137 lm/W

8", 2750 LUMEN CIRCULAR (0-10V Dimming)

Input Voltage	LED Retrofit Kit Catalog Number	Dimming Type	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	KT-RKIT-CP-8-2750-8xx-VDIM	0-10V	25.2W	2,845	113 lm/W	136 lm/W

*Also available in 2700K color temperature

13" SWITCHABLE LUMEN CIRCULAR, SET AT 3000 LUMENS (0-10V Dimming)

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	KT-RKIT-CP-13-4000-8xx-VDIM	1	27W	3,220	119 lm/W	133 lm/W

13" SWITCHABLE LUMEN CIRCULAR, SET AT 4000 LUMENS (0-10V Dimming)

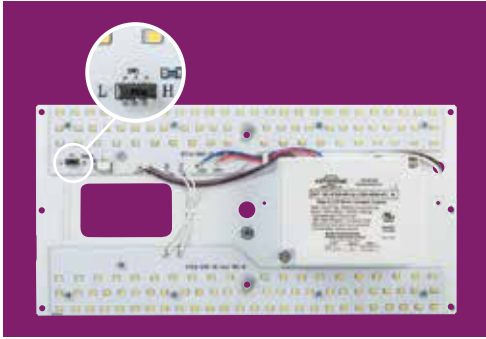
Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	KT-RKIT-CP-13-4000-8xx-VDIM	1	36W	4,150	116 lm/W	134 lm/W

*8xx denotes several color temperatures available. 3500K not available for 1600 lumen and 2200 lumen 8" circular kits.

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

TYPICAL INSTALLATION APPLICATION





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	Total System Power	Total Lumens per Module	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	KT-RKIT-RP-6-800-8xx-UV	8.5W	435	870	102 lm/W	124 lm/W

3"x6", 1600 LUMEN RECTANGULAR

Input Voltage	LED Retrofit Kit Catalog Number	Total System Power	Total Lumens per Module	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	KT-RKIT-RP-6-1600-8xx-UV	17W	825	1,650	97 lm/W	118 lm/W

5.5"x11" SWITCHABLE LUMEN RECTANGULAR, SET AT 3000 LUMENS

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	KT-RKIT-RP-11-4000-8xx-VDIM	2	26W	3,300	127 lm/W	140 lm/W

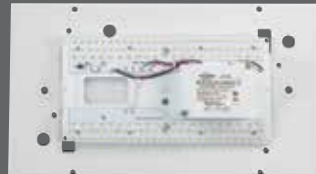
5.5"x11" SWITCHABLE LUMEN RECTANGULAR, SET AT 4000 LUMENS

Input Voltage	LED Retrofit Kit Catalog Number	No. of Modules	Total System Power	Total System Lumens	Total System Efficacy	Module Efficacy
120-277V	KT-RKIT-RP-11-4000-8xx-VDIM	2	34.5W	4,200	122 lm/W	136 lm/W

*8xx denotes several color temperatures available. 3500K only available for switchable lumen rectangular kits.

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

TYPICAL INSTALLATION APPLICATION





FEATURES AND BENEFITS

- L70 > 50,000 hours
- Operating temperature: 0°F-104°F, -18°C-40°C
- High power factor >.90
- T24 JA8 Compliant (90CRI 2700K and 3000K only) and CEC T20 Compliant
- Suitable for fully enclosed fixtures
- THD: <20%
- 5% minimum dimming, low flicker
- Comes with mounting accessories
- Pre-assembled with metal heatsink 5VA cover

COMPATIBLE DIMMERS*

Manufacturer	Model Number
Lutron	S-600PR-WH
Lutron	TGCL-153PH-WH
Lutron	MACL-153MH-LA
Leviton	WA-RXX-06674-12A

*For compatibility with other dimmers, contact Keystone

3" ROUND

Catalog Number	CRI	Wattage	Lumens	Efficacy	Input Voltage	Dimming Method	Equivalents
KT-RKIT8AC-3C-8xx-FDIM	>80	8W	790	98 lm/W	120V	Phase Control	<ul style="list-style-type: none"> • (1) 60W Incandescent • (1) 18W CFL
KT-RKIT10AC-3C-9xx-FDIM	>90	10W	820	82 lm/W	120V	Phase Control	

4" ROUND

Catalog Number	CRI	Wattage	Lumens	Efficacy	Input Voltage	Dimming Method	Equivalents
KT-RKIT12AC-4C-8xx-FDIM	>80	12W	1,150	96 lm/W	120V	Phase Control	<ul style="list-style-type: none"> • (2) 40W Incandescent • (2) 11W CFL • (1) 20W T9 Circline
KT-RKIT17AC-4C-9xx-FDIM	>90	17W	1,340	74 lm/W	120V	Phase Control	

5.5" ROUND

Catalog Number	CRI	Wattage	Lumens	Efficacy	Input Voltage	Dimming Method	Equivalents
KT-RKIT16AC-5C-8xx-FDIM	>80	16W	1,700	106 lm/W	120V	Phase Control	<ul style="list-style-type: none"> • (2) 60W Incandescent • (2) 13W CFL • (1) 20W T9 Circline

7" ROUND

Catalog Number	CRI	Wattage	Lumens	Efficacy	Input Voltage	Dimming Method	Equivalents
KT-RKIT19AC-7C-8xx-FDIM	>80	19W	2,100	110 lm/W	120V	Phase Control	<ul style="list-style-type: none"> • (2) 75W Incandescent • (2) 18W CFL • (1) 32W T9 Circline
KT-RKIT25AC-7C-8xx-FDIM	>80	25W	2,520	101 lm/W	120V	Phase Control	
KT-RKIT28AC-7C-9xx-FDIM	>90	28W	2,280	83 lm/W	120V	Phase Control	

* 8xx denotes several color temperatures available:

830	800 Series, 3000K	840	800 Series, 4000K	850	800 Series, 5000K
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* 9xx denotes several color temperatures available:

927	900 Series, 2700K	930	900 Series, 3000K	940	900 Series, 4000K	950	900 Series, 5000K
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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 (SOLD SEPARATELY)

Catalog Number	Description
HBE-EXBT	Extender bracket for high bay motion sensor; lowers sensor for optimum field of view

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 high output lamps
KT-SOCKET-RDC-SE	Recessed double contact socket with stationary end for high output 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-SI	Slide-on socket for DirectDrive U-bend lamps

LED DRIVERS

SmartCurrent Programmable LED Drivers



EC&M
Product of the Year
2018 Category Winner

PRODUCT FEATURES

- Programmable output current via Keystone's SmartCurrent cradle (KTLD-SC-PGMR-1)
- Download software at keystoneballast.com/programmable-driver-software
- Pre-programming available upon request
- Meets FCC Part 15 (Class B) consumer limits
- Short circuit overload and open load protection
- Dimmable with 0-10V dimmer (down to 1% at max. output current)
- Auxiliary power: 12Vdc; 200mA max.
- UL 8750, Class P

PROGRAMMING FEATURES

- Drive current (10 mA increments)
- Minimum dimming level (1%, 3%, 5%, 7%, or 10%)
- Dimming curve (linear, log, inverse log, or square-log)
- Minimum dimming voltage (1V, 1.5V, or 2V)
- Maximum dimming voltage (7V, 8V, or 9V)
- Dim-to-off voltage (0.8V, 1V, 1.2V, or N/A)

Catalog Number	Max. Output Power	Input Voltage	Output Current	Output Voltage	OCV	Class 2		Case Style
						US	CAN	
KTLD-25-UV-SC1250-56-VDIM-W1	25W	120-277V	420-1250mA	10-56V	60V	Yes	No	CFL (W1)
KTLD-30-UV-SC1050-56-VDIM-U7	30W	120-277V	350-1050mA	10-56V	60V	Yes	No	Linear (U7)
KTLD-40-UV-SC1400-56-VDIM-W1	40W	120-277V	470-1400mA	10-56V	60V	Yes	No	CFL (W1)
KTLD-50-UV-SC1400-56-VDIM-U7	50W	120-277V	470-1400mA	10-56V	60V	Yes	No	Linear (U7)
KTLD-85-UV-SC2600-56-VDIM-U4	85W	120-277V	860-2600mA	10-56V	60V	Yes	No	Linear (U4)

Linear Style Case U4



Linear Style Case U7



CFL Style Case W1





SmartCurrent Cradle

Catalog No. KTLD-SC-PGMR-1

Programming the driver is easy with the SmartCurrent Cradle. The cradle connects the driver to the SmartCurrent PC software via USB (cable included). Start by downloading the SmartCurrent PC software from keystoneballast.com/programmable-driver-software. Then use the software to program the driver to your specifications.

ACCESSORIES

Catalog Number	Description
KTLD-SC-PGMR-1	SmartCurrent Cradle
KTLD-SC-ADPT-1A	Programming jig adapter for Keystone SmartCurrent LED driver, for U7 and U4 case drivers. For handheld programming option. Must be used in conjunction with KTLD-SC-PGMR-1.
KTLD-SC-ADPT-1B	Programming jig adapter for Keystone SmartCurrent LED driver, for W1 case drivers. Must be used in conjunction with KTLD-SC-PGMR-1.

WHAT'S NEEDED?

A SmartCurrent programmable LED driver, the SmartCurrent Cradle, and a computer.

For SmartCurrent LED drivers with W1 cases, a jig adapter (KTLD-SC-ADPT-1B) is also required.

SmartCurrent Drivers with U7 or U4 Cases



SmartCurrent Drivers with W1 Cases



Drivers are available for pre-programming before shipment. Order with /pp at the end of the catalog number and list the desired output current setting on the purchase order. Example: KTLD-30-UV-SC1050-56-VDIM-U7 /pp

LED DRIVERS

Constant Current



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	2x500mA (Dual Channel)	25-50Vdc	50W	120-277Vac	0-10V
	KTLD-50-UV-2X700-VDIM-L5	2x700mA (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	2x1000mA (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	4x500mA (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	Maximum Power	Maximum Current	Input Voltage	SAM Qualified*	Additional Approvals
10W	KTLD-10-1N-12V-F3	12Vdc	10W	0.83A	120Vac	Yes	c UL [®] US
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-MC1	12Vdc	60W	5.00A	120-277Vac	Yes	c UL [®] US FC LISTED
	KTLD-60-UV-12V-VDIM-L5 (0-10V Dimmable)	12Vdc	60W	5.00A	120-277Vac	Yes	
	KTLD-60-UV-24V	24Vdc	60W	2.50A	120-277Vac	Yes	c UL [®] US
80W	KTLD-80-UV-12V	12Vdc	80W	6.70A	120-277Vac	N/A	
	KTLD-80-UV-24V	24Vdc	80W	3.30A	120-277Vac	N/A	c UL [®] US FC LISTED
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-MC2	24Vdc	100W	4.00A	120-277Vac	Yes	c UL [®] US FC LISTED
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.



With just a simple twist of Keystone's unique SpeedDial, the LED driver is programmed to your desired output current.

FEATURES AND BENEFITS

- **Slim form factor:** Ideal for narrow channels and slender fixtures
- **Easy adjustability:** Simply twist the SpeedDial with a standard screwdriver to the desired setting
- **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 TUBES



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	1,380	1,300	30,000 Hours	36,000 Hours	94%	N/A
25W	36"	KTL-F25T8-8xx-HP	25	85	2,275	2,140	30,000 Hours	36,000 Hours	94%	
25W	48"	KTL-F25T8ES-8xx-HP	25	85	2,500	2,350	30,000 Hours	36,000 Hours	94%	
28W	48"	KTL-F28T8ES-8xx-HP	25	85	2,725	2,560	30,000 Hours	36,000 Hours	94%	CEE Qualified
32W	48"	KTL-F32T8-8xx-HP	25	85	3,100	2,915	30,000 Hours	36,000 Hours	94%	
32W	48"	KTL-F32T8-8xx-XHP	25	85	3,200	3,010	30,000 Hours	36,000 Hours	94%	
32W	48"	KTL-F32T8-8xx-XL	25	85	3,100	2,915	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	1,350	1,265	24,000 Hours	30,000 Hours	94%
21W	36"	KTL-F21T5-8xx-HE	25	85	2,200	2,060	24,000 Hours	30,000 Hours	94%
28W	48"	KTL-F28T5-8xx-HE	25	85	2,900	2,725	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	4,900	4,600	24,000 Hours	30,000 Hours	94%
54W	48"	KTL-F54T5-8xx-HO	25	85	5,000	4,700	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	2,500	2,250	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 (3-hr/Start)	Lumen Maintenance
Circular T9 Lamps (4-Pin, G10q Base)									
22W	8"	KTL-FC8T9-CW	12	4100K	60	1,120	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	1,930	1,582	10,000 Hours	82%
32W	12"	KTL-FC12T9-DL	12	6500K	76	1,675	1,373	10,000 Hours	82%
40W	16"	KTL-FC16T9-CW	12	4100K	60	2,950	2,420	10,000 Hours	82%
40W	16"	KTL-FC16T9-DL	12	6500K	76	2,450	2,010	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
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T12

Primary Lamp Type	No. of Lamps	Input Voltage	Catalog Number	Warranty	Description
F20T12	1	120V	KTEB-120-1-TP-EMI	3 Years	1 lamp F20T12, FCC Class B, normal power factor
	2	120V	KTEB-220-1-TP-EMI	3 Years	2 lamp F20T12, FCC Class B, normal power factor
F40T12	1	120V	KTEB-140-1-TP-EMI	3 Years	1 lamp F40T12, FCC Class B, normal power factor
	2	120V	KTEB-240-1-TP-PIC	3 Years	2 lamp F40T12, F40T12ES, and F34T12, high power factor
		120-277V	KTEB-240-UV-TP-PIC	3 Years	2 lamp F40T12, F40T12ES, and F34T12, high power factor
F96T12	2	120V	KTEB-275-1-TP-PIC-SL	3 Years	1 or 2 lamp F96T12 and F96T12ES, 9" case
		120-277V	KTEB-275-UV-TP-PIC	3 Years	1 or 2 lamp F96T12 and F96T12ES
			KTEB-275-UV-TP-PIC-SL	3 Years	1 or 2 lamp F96T12 and F96T12ES, 9" case
F96T12HO	2	120V	KTEB-2110-1-TP-PIC	3 Years	1 or 2 lamp F96T12HO and F96T12HOES
		120-277V	KTEB-2110-UV-TP-PIC	3 Years	1 or 2 lamp 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 lamp F17/25/32 T8, reduced output
			KTEB-232-UV-IS-N-P	5 Years	Normal	1 or 2 lamp F17/25/32 T8, standard output
			KTEB-232-UV-IS-H-P	5 Years	High	1 or 2 lamp F17/25/32 T8, high output
	3	347V	KTEB-232-3-IS-N-P	5 Years	Normal	1 or 2 lamp F17/25/32 T8, standard output
			KTEB-332-UV-IS-L-P	5 Years	Low	2 or 3 lamp F17/25/32 T8, reduced output
			KTEB-332-UV-IS-N-P	5 Years	Normal	2 or 3 lamp F17/25/32 T8, standard output
		120-277V	KTEB-332-UV-IS-H-P	5 Years	High	2 or 3 lamp F17/25/32 T8, high output
			KTEB-432-UV-IS-L-P	5 Years	Low	3 or 4 lamp F17/25/32 T8, reduced output
			KTEB-432-UV-IS-N-P	5 Years	Normal	3 or 4 lamp F17/25/32 T8, standard output
			KTEB-432-UV-IS-H-P	5 Years	High	3 or 4 lamp F17/25/32 T8, high output
	4	347V	KTEB-432-3-IS-N-P	5 Years	High	3 or 4 lamp F17/25/32/40 T8, high output
			KTEB-259-UV-IS-N	5 Years	Normal	1 or 2 lamp F96T8, standard output
F96T8	2	120-277V	KTEB-259-UV-IS-N	5 Years	Normal	1 or 2 lamp F96T8, standard output
F96T8HO	2	120-277V	KTEB-286HO-UV-IS-N	5 Years	Normal	1 or 2 lamp 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 lamp F17/25/32 T8, standard output
	2	120-277V	KTEB-232-UV-PS-VDIM	5 Years	Normal	2 lamp F17/25/32 T8, 0-10V dimming
			KTEB-232-UV-PS-L-P	5 Years	Low	1 or 2 lamp F17/25/32 T8, reduced output
			KTEB-232-UV-PS-N-P	5 Years	Normal	1 or 2 lamp F17/25/32 T8, standard output
			KTEB-232-UV-PS-H-P	5 Years	High	1 or 2 lamp F17/25/32 T8, high output
	3	120-277V	KTEB-332-UV-PS-L-P	5 Years	Low	2 or 3 lamp F17/25/32 T8, reduced output
			KTEB-332-UV-PS-N-P	5 Years	Normal	2 or 3 lamp F17/25/32 T8, standard output
			KTEB-332-UV-PS-H-P	5 Years	High	2 or 3 lamp F17/25/32 T8, high output
	4	120-277V	KTEB-432-UV-PS-L-P	5 Years	Low	3 or 4 lamp F17/25/32 T8, reduced output
			KTEB-432-UV-PS-N-P	5 Years	Normal	3 or 4 lamp F17/25/32 T8, standard output
F58T8, F70T8	2	120-277V	KTEB-270-UV-PS-N /C1	5 Years	Normal	1 or 2 lamp F58/70 T8 freezer ballast with Molex connectors
F96T8HO	2	120-277V	KTEB-286HO-UV-PS-N	5 Years	Normal	1 or 2 lamp 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 lamp F14/21/28 T5 program start, 90°C rated
			KTEB-228HE-UV-PS-SL	5 Years	1 or 2 lamp 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 lamp F24T5HO program start, 90°C rated
			KTEB-224HO-UV-PS-SL	5 Years	1 or 2 lamp F24T5HO program start, 90°C rated, 9" case
			KTEB-239HO-UV-PS	5 Years	1 or 2 lamp F24T5HO or F39T5HO program start, 90°C rated
			KTEB-239HO-UV-PS-SL	5 Years	1 or 2 lamp 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 lamp F24T5HO or F39T5HO program start, 90°C rated
			KTEB-239HO-UV-PS-SL	5 Years	1 or 2 lamp 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 lamp F54T5HO program start, 90°C rated
			KTEB-254HO-UV-PS-SL	5 Years	1 or 2 lamp F54T5HO program start, 90°C rated, 9" case
	3 or 4	120-277V	KTEB-454HO-UV-PS	5 Years	3 or 4 lamp 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
	1 or 2	120-277V	113SHPTP	3 Years	1 lamp 13W 2-pin CFL, high power factor, magnetic
			KTEB-213-UV-PS-DW	5 Years	1 or 2 lamp 13W 4-pin CFL, program start
			KTEB-213-UV-RS-DW	5 Years	1 or 2 lamp 13W 4-pin CFL, rapid start
			KTEB-213-UV-RS-DW-KIT	5 Years	1 or 2 lamp 13W 4-pin CFL, kit includes wires/stud plate
18W CFL	1 or 2	120-277V	KTEB-218-UV-PS-DW	5 Years	1 or 2 lamp 18W 4-pin CFL, program start
			KTEB-218-UV-RS-DW	5 Years	1 or 2 lamp 18W 4-pin CFL, rapid start
			KTEB-218-UV-RS-DW-KIT	5 Years	1 or 2 lamp 18W 4-pin CFL, kit includes wires/stud plate
26W CFL	1 or 2	120-277V	KTEB-226-UV-PS-DW	5 Years	1 or 2 lamp 26W 4-pin CFL, program start
			KTEB-226-UV-RS-DW	5 Years	1 or 2 lamp 26W 4-pin CFL, rapid start
			KTEB-226-UV-RS-DW-KIT	5 Years	1 or 2 lamp 26W 4-pin CFL, kit includes wires/stud plate
42W CFL	1 or 2	120-277V	KTEB-242-UV-PS-DW	5 Years	1 or 2 lamp 42W 4-pin CFL, program start
			KTEB-242-UV-RS-DW	5 Years	1 or 2 lamp 42W 4-pin CFL, rapid start
			KTEB-242-UV-RS-DW-KIT	5 Years	1 or 2 lamp 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 lamp 22W, small case, with sockets
FC32T9 or FC40T9	1	120V	KTEB-140-1-TP-EMI-WS	3 Years	1 lamp 32 or 40W, with sockets
	1	120V	KTEB-140-1-TP-EMI-WS	3 Years	1 lamp 32 or 40W, with sockets
FC22T9 & FC32T9 or FC32T9 & FC40T9	2	120V	KTEB-2C72-1-TP-WS	3 Years	2 lamp 22W & 32W or 32 & 40W, with sockets

FLUORESCENT BALLASTS

Fluorescent Emergency Back-Up Ballasts



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 /B	120/277V, 60 Hz	500 Lumens	90 Minutes	NiCd
	KT-EMRG-700 /B	120/277V, 60 Hz	700 Lumens	90 Minutes	NiCd
	KT-EMRG-1400 /B	120/277V, 60 Hz	1,400 Lumens	90 Minutes	NiCd
T8 & T12 Linear Slim Can					
1-4	KT-EMRG-500-SL /B	120/277V, 60 Hz	500 Lumens	90 Minutes	NiCd
	KT-EMRG-700-SL /B	120/277V, 60 Hz	700 Lumens	90 Minutes	NiCd
	KT-EMRG-1400-SL /B	120/277V, 60 Hz	1,400 Lumens	90 Minutes	NiCd
T5 Linear					
1-4	KT-EMRG-500-T5 /B	120/277V, 60 Hz	500 Lumens	90 Minutes	NiCd
	KT-EMRG-800-T5 /B	120/277V, 60 Hz	800 Lumens	90 Minutes	NiCd
	KT-EMRG-1300-T5*	120/277V, 60 Hz	1,300 Lumens	90 Minutes	NiCd

*Compatible for use with Keystone 11.5W, 14W, or 15W 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 /B	4-Pin CFL	120/277V, 60Hz	750 Lumens	90 Minutes	NiCd

CEC COMPLIANT EMERGENCY BALLASTS

No. of Lamps in Fixture	Catalog Number	Input Voltage	Light Output	Illumination Time	Battery
T8 & T12 Linear					
1-4	KT-EMRG-700C	120/277V, 50/60Hz	700 Lumens	90 Minutes	NiCd
	KT-EMRG-1400C	120/277V, 50/60Hz	1,400 Lumens	90 Minutes	NiCd
T5 Linear					
1-4	KT-EMRG-800C-T5	120/277V, 50/60Hz	800 Lumens	90 Minutes	NiCd
Compact Fluorescent					
1-4	KT-EMRG-1400C-CFL4	120/277V, 50/60Hz	1,400 Lumens	90 Minutes	NiCd

SIGN BALLASTS



SMARTWIRE™
ELECTRONIC SIGN BALLASTS

EC&M
Product
OF THE
Year
Category Winner **14**

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 3 SmartWire ballasts operate both T8HO and T12HO lamps, reducing inventory without sacrificing application options

Additional Features: **NEW! 120V-277V Input** • Series wiring • Minimum starting temperature of -29°C/-20°F

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-0416-12-UV-S																						
	2-4									KTSB-E-1232-24-UV-S															
	4-6																	KTSB-E-2048-46-UV-S							

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-0416-12-UV-S																						
	2-4									KTSB-E-1232-24-UV-S															
	4-6																	KTSB-E-2048-46-UV-S							

Input Voltage	No. of Lamps	Combined Lamp Length	Catalog Number	Description
T12HO				
120-277V	1-2	4'-16'	KTSB-E-0416-12-UV-S	1-2 T12HO lamps with a combined length of 4-16 feet
	2-4	12'-32'	KTSB-E-1232-24-UV-S	2-4 T12HO lamps with a combined length of 12-32 feet
	4-6	20'-48'	KTSB-E-2048-46-UV-S	4-6 T12HO lamps with a combined length of 20-48 feet
T8HO				
120-277V	1-2	4'-12'	KTSB-E-0416-12-UV-S	1-2 T8HO lamps with a combined length of 4-12 feet
	2-4	12'-24'	KTSB-E-1232-24-UV-S	2-4 T8HO lamps with a combined length of 12-24 feet
	4-6	20'-36'	KTSB-E-2048-46-UV-S	4-6 T8HO lamps with a combined length of 20-36 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																								
1-4																								
4-6																								

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																								
1-4																								
4-6																								

Input Voltage	No. of Lamps	Combined Lamp Length	Catalog Number	Description
T12HO				
120-277	1-2	2'-16'	KTSB-E-0216-12-UV	1-2 T12HO lamps with a combined length of 2-16 feet*
	1-4	4'-32'	KTSB-E-0432-14-UV	1-4 T12HO lamps with a combined length of 4-32 feet*
		10'-40'	KTSB-E-1040-14-UV	1-4 T12HO lamps with a combined length of 10-40 feet
	4-6	8'-48'	KTSB-E-0848-46-UV	4-6 T12HO lamps with a combined length of 8-48 feet*
T8HO				
120-277	1-2	4'-12'	KTSB-E-0216-12-UV	1-2 T8HO lamps with a combined length of 4-12 feet*
	1-4	4'-24'	KTSB-E-0432-14-UV	1-4 T8HO lamps with a combined length of 4-24 feet*
		8'-32'	KTSB-E-1040-14-UV	1-4 T8HO lamps with a combined length of 8-32 feet*
	4-6	16'-36'	KTSB-E-0848-46-UV	4-6 T8HO lamps with a 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	ANSI Code
50W	Quad	120/208/240/277V	MH-50X-Q-KIT	M110
70W	Quad	120/208/240/277V	MH-70X-Q-KIT	M98
100W	Quad	120/208/240/277V	MH-100X-Q-KIT	M90
150W	Quad	120/208/240/277V	MH-150X-Q-KIT	M102
175W	Quad	120/208/240/277V	MH-175A-Q-KIT	M57
	5-Tap	120/208/240/277/480V	MH-175A-P-KIT	M57
250W	Single	480V	MH-250A-480-KIT	M58
	Quad	120/208/240/277V	MH-250A-Q-KIT	M58
	5-Tap	120/208/240/277/480V	MH-250A-P-KIT	M58
400W	Single	480V	MH-400A-480-KIT	M59
	Quad	120/208/240/277V	MH-400A-Q-KIT	M59
	5-Tap	120/208/240/277/480V	MH-400A-P-KIT	M59
1000W	Single	480V	MH-1000A-480-KIT	M47
	Quad	120/208/240/277V	MH-1000A-Q-KIT	M47
	5-Tap	120/208/240/277/480V	MH-1000A-P-KIT	M47
1500W	Quad	120/208/240/277V	MH-1500A-Q-KIT	M48
	5-Tap	120/208/240/277/480V	MH-1500A-P-KIT	M48

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	ANSI Code
50W	Dual	120/277V	MH-50X-D-FCAN	M110
70W	Dual	120/277V	MH-70X-D-FCAN	M98
100W	Dual	120/277V	MH-100X-D-FCAN	M90
150W	Dual	120/277V	MH-150X-D-FCAN	M102
175W	Dual	120/277V	MH-175A-D-FCAN	M57/H39
250W	Dual	120/277V	MH-250A-D-FCAN	M58/H37
400W	Dual	120/277V	MH-400A-D-FCAN	M59/H33



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	ANSI Code
175W	Quad	120/208/240/277V	MPS-175A-Q-KIT	M137
	5 Tap	120/208/240/277/480V	MPS-175A-P-KIT	M137
200W	5 Tap	120/208/240/277/480V	MPS-200A-P-KIT	M136
250W	Quad	120/208/240/277V	MPS-250A-Q-KIT	M138
	5 Tap	120/208/240/277/480V	MPS-250A-P-KIT	M138
320W	Quad	120/208/240/277V	MPS-320A-Q-KIT	M132
	5 Tap	120/208/240/277/480V	MPS-320A-P-KIT	M132
350W	Quad	120/208/240/277V	MPS-350A-Q-KIT	M131
	5 Tap	120/208/240/277/480V	MPS-350A-P-KIT	M131
400W	Single	480V	MPS-400A-480-KIT	M135
	Quad	120/208/240/277V	MPS-400A-Q-KIT	M135
	5 Tap	120/208/240/277/480V	MPS-400A-P-KIT	M135
450W	Quad	120/208/240/277V	MPS-450A-Q-KIT	M144
	5 Tap	120/208/240/277/480V	MPS-450A-P-KIT	M144
750W	Quad	120/208/240/277V	MPS-750A-Q-KIT	M149
	5 Tap	120/208/240/277/480V	MPS-750A-P-KIT	M149
1000W	Quad	120/208/240/277V	MPS-1000A-Q-KIT	M141
	5 Tap	120/208/240/277/480V	MPS-1000A-P-KIT	M141

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	ANSI Code
35W	Single	120V	HPS-35R-1-KIT	S76
50W	Single	120V	HPS-50R-1-KIT	S68
70W	Single	120V	HPS-70R-1-KIT	S62
	Quad	120/208/240/277V	HPS-70X-Q-KIT	S62
100W	Single	120V	HPS-100R-1-KIT	S54
	Quad	120/208/240/277V	HPS-100X-Q-KIT	S54
150W	Single	120V	HPS-150R-1-KIT	S55
	Quad	120/208/240/277V	HPS-150X-Q-KIT	S55
250W	Quad	120/208/240/277V	HPS-250A-Q-KIT	S50
	5-Tap	120/208/240/277/480V	HPS-250A-P-KIT	S50
400W	Single	480V	HPS-400A-480-KIT	S51
	Quad	120/208/240/277V	HPS-400A-Q-KIT	S51
	5-Tap	120/208/240/277/480V	HPS-400A-P-KIT	S51
600W	Quad	120/208/240/277V	HPS-600A-Q-KIT	S106
1000W	Quad	120/208/240/277V	HPS-1000A-Q-KIT	S52
	5-Tap	120/208/240/277/480V	HPS-1000A-P-KIT	S52

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



STEP DOWN TRANSFORMERS

	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS				
Catalog Number	Input Voltage	Input Current at Max. Load	Input Current at No Load	Output Voltage	Max. Load	Max Output Current	Description	Additional Approvals
KTAT-375-480-277 /A	480V	0.86A	0.21A	277V	375VA	1.35A	Fully enclosed, flying leads	
	347V	0.86A	0.11A	200V	270VA	1.35A		
KTAT-250-480-277 /A	480V	0.57A	0.16A	277V	250VA	0.90A	Fully enclosed, flying leads	
	347V	0.57A	0.11A	200V	180VA	0.90A		
KTAT-250-480-277 /SF*	480V	0.57A	0.16A	277V	250VA	0.90A	Fully enclosed, single flex	
	347V	0.57A	0.11A	200V	180VA	0.90A		
KTAT-150-480-277-OC	480V	0.33A	0.05A	240V	125VA	0.52A	Open core, flying leads	
				277V	150VA	0.54A		
	347V	0.45A	0.06A	240V	125VA	0.52A		
				277V	150VA	0.54A		
KTAT-70-347-277	347V	0.23A	0.07A	277V	70VA	0.27A	Fully enclosed, flying leads	
KTAT-70-347-277-RJS	347V	0.23A	0.07A	277V	70VA	0.27A	Fully enclosed, rear junction studs	
KTAT-70-480-277	480V	0.16A	0.06A	277V	70VA	0.25A	Fully enclosed, flying leads	
	347V	0.22A	0.08A	277V	70VA	0.25A		
KTAT-70-480-277-RJS	480V	0.16A	0.06A	277V	70VA	0.25A	Fully enclosed, rear junction studs	
	347V	0.22A	0.08A	277V	70VA	0.25A		
KTAT-30-347-277	347V	0.11A	0.05A	277V	30VA	0.13A	Fully enclosed, flying leads	
KTAT-30-347-277-RJS	347V	0.11A	0.05A	277V	30VA	0.13A	Fully enclosed, rear junction studs	

*Available Q2 2019

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	UL
		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	



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