

March  
2024

# OEM PRODUCT

SINCE 1945

# KEYSTONE

# CATALOG

POWER SUPPLIES | LED MODULES & LIGHT ENGINES | CONTROLS | LAMPS

# POWER SUPPLIES

# LED MODULES & LIGHT ENGINES

# CONTROLS

# LAMPS

## WHO WE ARE

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

With over **100 million** Keystone products in use today, thousands of installers, architects, and engineers have come to depend on Keystone for lighting products that are manufactured to last. **100%** of every production run is factory tested so you know that when a Keystone product is installed, it's made to perform.



MARVIN SPIELMAN  
FOUNDER



FRED GREENBERG  
PRESIDENT



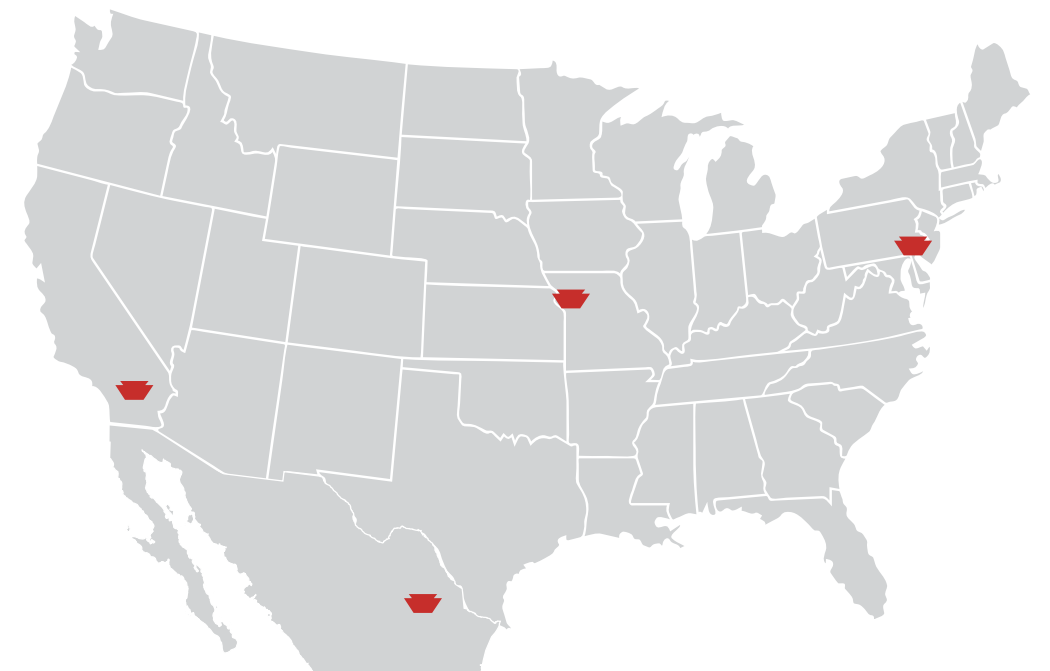
IRA GREENBERG  
CEO

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## Ordering Guide for Color Selection of Keystone Products

All lamps and fixtures in our catalog are available in a variety of color temperatures. While reviewing options, the guide below will help you identify the final product ID needed to order.



When a Keystone product has a catalog number that uses an "xx," it indicates that several color temperatures are available. The color temperatures for that product are noted in the accompanying chart.

Below is a quick reference guide to Keystone's color offering and how to easily select and order the right product for your job.

To order, simply replace the "xx" with the first two numbers from the corresponding color temperature.

Example:

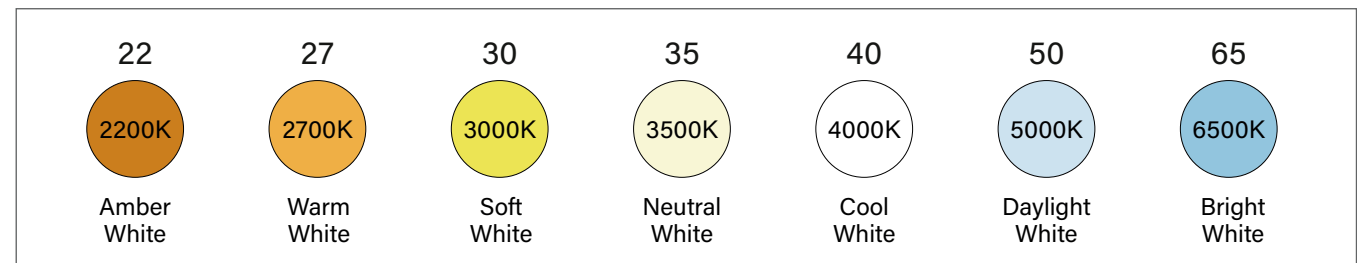
To order a 4000K color temperature product, replace the "xx" in the catalog number with the two-digit number represented above the Kelvin desired as indicated in color chart below.

Catalog number with "xx"

KT-LED14.5T8-48G-8xx-DX2

Catalog number used to order a 4000K color temperature product

KT-LED14.5T8-48G-840-DX2



# POWER SUPPLIES

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# POWER SUPPLIES

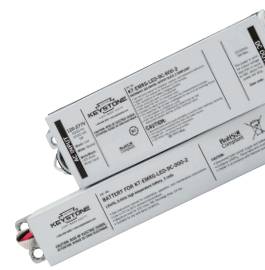
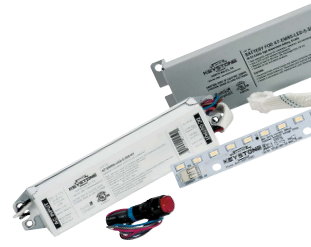
POWER SUPPLIES





## Emergency Backup

LED



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## LED Drivers

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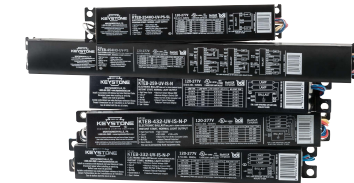


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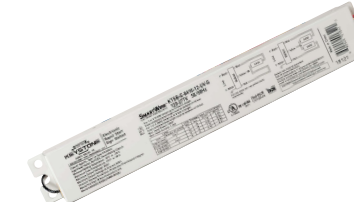
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## Ballasts

Electronic Fluorescent



**Electronic Fluorescent**  
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Sign

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Germicidal/UV-C

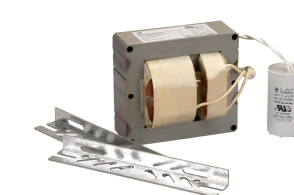


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HID



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## Transformers

Step Down



**High Voltage**  
P70



**Low Voltage**  
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**Low Voltage - LED Specific**  
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# Standard DC



## Features & Benefits

- Can incorporate emergency lighting solutions into variety of LED fixtures
- Multiple construction and wiring type configurations available
- All units come with 2-in-1 test switch/indicator lights
- Designed to work with virtually any fixture type using existing Class 2 LED systems
- Evaluated to UL 924 requirements
- UL Listed for field or factory installation
- 5-year warranty



# Standard DC

## DC

## SMART//SAFE

CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT
KT-EMRG-LED-5C-500	120-277V	5W	20-60Vdc	86mA-250mA	Two Piece (Driver + Battery)	Standard Wire Leads	90 min	No	Yes

MOUNTING	LENGTH	WIDTH	HEIGHT
Driver	6"	6.46"	1.37"
Battery	3.48"	3.98"	2.38"



CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT
KT-EMRG-LED-5C-500-EN	120-277V	5W	20-60Vdc	86mA-250mA	One Piece	Standard Wire Leads	90 min	No	Yes

MOUNTING	LENGTH	WIDTH	HEIGHT
1 piece	9"	9.5"	1.29"



CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT
KT-EMRG-LED-5C-500-EN /DF	120-277V	5W	20-60Vdc	86mA-250mA	One Piece	Dual Flex Cable	90 min	No	Yes

MOUNTING	LENGTH	WIDTH	HEIGHT
1 piece	9"	9.5"	1.29"



CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT
KT-EMRG-LED-5C-500-SEN	120-277V	5W	20-60Vdc	86mA-250mA	Slim One Piece	Push In Terminals	90 min	No	Yes

MOUNTING	LENGTH	WIDTH	HEIGHT
1 piece	18.76"	19.41"	1"



CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT
KT-EMRG-LED-12C-1200	120-277V	12W	20-60Vdc	206mA-600mA	Two Piece (Driver + Battery)	Standard Wire Leads	90 min	No	Yes

MOUNTING	LENGTH	WIDTH	HEIGHT
Driver	6"	6.46"	1.37"
Battery	8.84"	9.49"	1.22"



CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT
KT-EMRG-LED-12C-1200-EN	120-277V	12W	20-60Vdc	206mA-600mA	One Piece	Standard Wire Leads	90 min	No	Yes



MOUNTING	LENGTH	WIDTH	HEIGHT
1 piece	12"	12.5"	2.29"

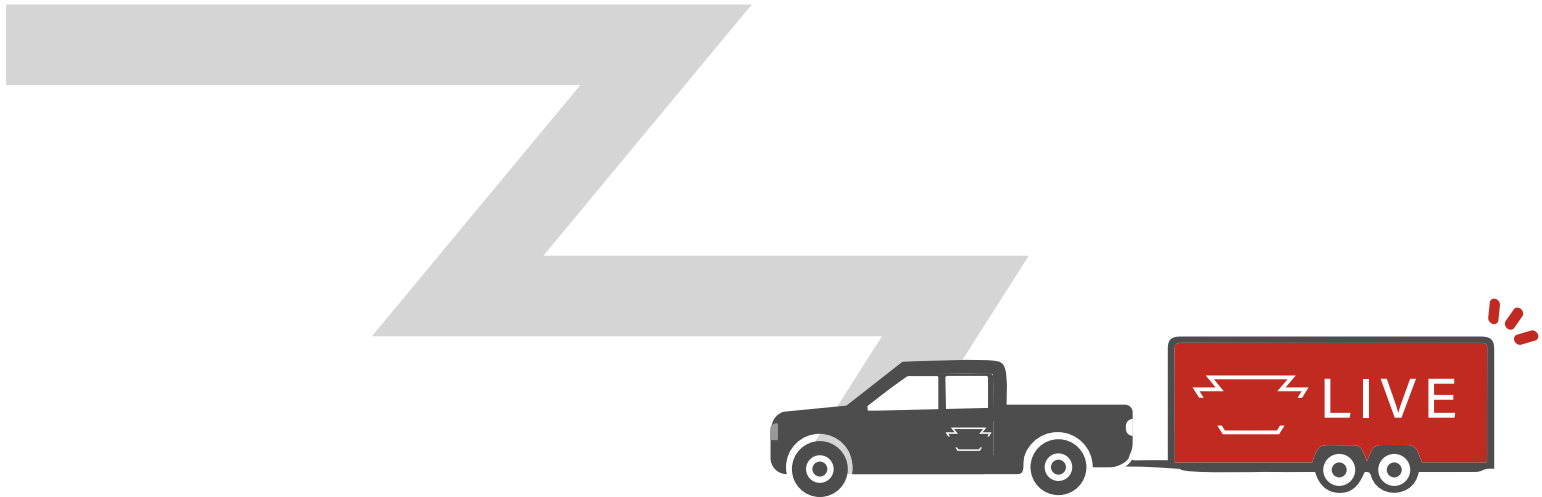


Chart continues on next page

# Standard DC

Chart continued from previous page

CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT
KT-EMRG-LED-12C-1200-EN /DF	120-277V	12W	20-60Vdc	206mA-600mA	One Piece	Dual Flex Cable	90 min	No	Yes
<b>MOUNTING</b>									
1 piece	12"	12.5"	2.29"	1.29"					
CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT
KT-EMRG-LED-14C-1400-EN	120-277V	14W	15-55Vdc	310mA-930mA	One Piece	Standard Wire Leads	90 min	No	Yes
<b>MOUNTING</b>									
1 piece	15.24"	15.55"	1.46"	1.16"					



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**[ We'll Meet You! ]**



# Kit Solution



## Features & Benefits

- Can incorporate emergency lighting solutions into variety of LED fixtures
- Multiple configurations available
- All units come with 2-in-1 test switch/indicator lights and an LED module that illuminates in emergency mode
- Kit solutions optimized for a wide variety of LED tube solutions
- Evaluated to UL 924 requirements
- UL Listed for field or factory installation
- 5-year warranty



# Kit Solution

## Kit Solution | Complete Emergency Kit

SMART//SAFE

CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	LUMENS	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT
KT-EMRG-LED-5C-500-K1	120-277V	5W	500	20-60Vdc	86mA-250mA	Two Piece (Driver + Battery)	Standard Wire Leads	90 min	Yes	Yes

	MOUNTING	LENGTH	WIDTH	HEIGHT
Driver	6"	6.46"	1.37"	1"
Battery	3.48"	3.98"	2.38"	1"
Module		5"	0.7"	



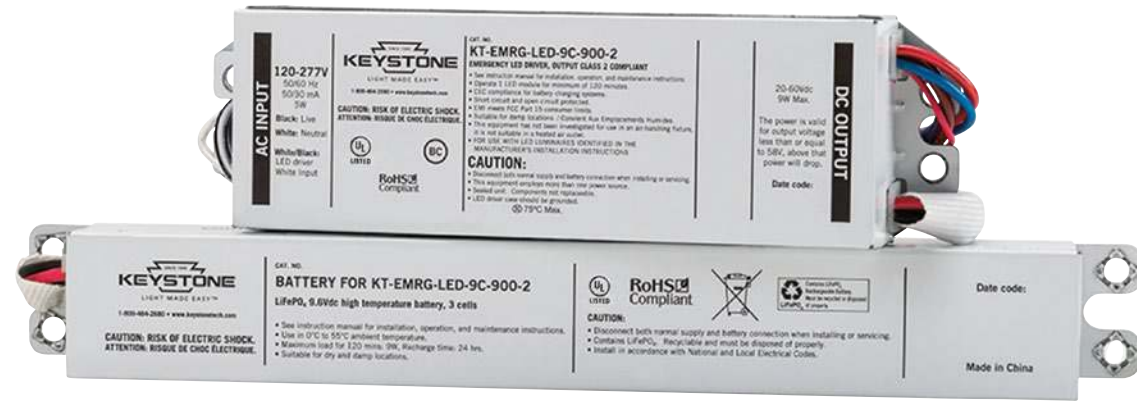
CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	LUMENS	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT
KT-EMRG-LED-12C-1200-K1	120-277V	12W	1200	20-60Vdc	206mA-600mA	Two Piece (Driver + Battery)	Standard Wire Leads	90 min	Yes	Yes

	MOUNTING	LENGTH	WIDTH	HEIGHT
Driver	6"	6.46"	1.37"	1"
Battery	8.84"	9.49"	1.22"	1.15"
Module		8"	0.7"	



# Special Purpose

# Special Purpose



## Features & Benefits

- Can incorporate emergency lighting solutions into variety of LED fixtures
- Multiple construction and wiring type configurations available
- All units come with 2-in-1 test switch/indicator lights
- Designed to work with virtually any fixture type using existing Class 2 LED systems
- Evaluated to UL 924 requirements
- UL Listed for field or factory installation
- 5-year warranty



## 2-Hour Rated

CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT	UNIQUE FEATURES
KT-EMRG-LED-9C-900-2	120-277V	9W	20-60Vdc	150mA-450mA	Two Piece (Driver + Battery)	Standard Wire Leads	120 min	No	Yes	2 hours Emergency Time
MOUNTING		LENGTH	WIDTH	HEIGHT						
Driver	6.02"	6.46"	1.89"	1.14"						
Battery	8.84"	9.49"	1.22"	1.15"						
Module	8"	0.7"								

## Low Temperature

CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT	UNIQUE FEATURES
KT-EMRG-LED-12LT-1200-EN /DF	120-277V	12W	20-60Vdc	206mA-600mA	One Piece	Dual Flex Cable	90 min	No	No	Low Temperature (0°F) Rated
MOUNTING		LENGTH	WIDTH	HEIGHT						
1 piece	9"	9.5"	2.3"	1.29"						

## Self Diagnostic

CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT	UNIQUE FEATURES
KT-EMRG-LED-20SD-2000-EN /DF	120-277V	20W	20-60Vdc	333mA-1000mA	One Piece	Dual Flex Cable	90 min	No	Yes	Self Diagnostic
MOUNTING		LENGTH	WIDTH	HEIGHT						
1 piece	12"	12.5"	2.37"	2.37"						

## Inline Round High Bay

CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT	UNIQUE FEATURES
KT-EMRG-LED-40SD-5000-CEN /SF	120-277V	40W	150-200Vdc	200-270mA	One Piece (with Junction Box)	Single Flex Cable	90 min	No	Yes	Optimized for round high bay application, self-diagnostic
MOUNTING HOOK DISTANCE		DIAMETER								
1 piece	9.45"	8.1"								

# Micro Inverter



## Features & Benefits

- Can incorporate emergency lighting solutions into variety of LED fixtures
- Multiple construction and wiring type configurations available
- All units come with 2-in-1 test switch/indicator light
- Optimized for Keystone DirectDrive LED tubes and downlights (check KeystoneTech.com/Compatibility-Lists for full details)
- Inverter-type solutions optimized for a variety of lighting fixtures using integrated LED components
- Evaluated to UL 924 requirements
- UL Listed for field or factory installation
- 5-year warranty



# Micro Inverter

## SMART//SAFE AC

### Micro Inverter

CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT
KT-EMRG-LED-5-500-AC	120-277V	5W	40-100Vdc	Load Dependant	One Piece	Standard Wire Leads	90 min	No	No

Length	6.5"	
Width	1.22"	
Height	1.29"	

CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT
KT-EMRG-LED-5-500-AC /DF	120-277V	5W	40-100Vdc	Load Dependant	One Piece	Dual Flex Cable	90 min	No	No

Length	11.72"	
Width	1.73"	
Height	1.43"	

CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT
KT-EMRG-LED-12-1200-AC	120-277V	12W	40-100Vdc	Load Dependant	One Piece	Standard Wire Leads	90 min	No	Yes

Length	12.68"	
Width	1.7"	
Height	1.2"	

CATALOG NUMBER	INPUT VOLTAGE	MAXIMUM OUTPUT POWER	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	LED MODULE INCLUDED	CEC COMPLIANT
KT-EMRG-LED-12-1200-AC /DF	120-277V	12W	40-100Vdc	Load Dependant	One Piece	Dual Flex Cable	90 min	No	Yes

Length	14.88"	
Width	1.73"	
Height	1.42"	

# Replacement Unit



## Features & Benefits

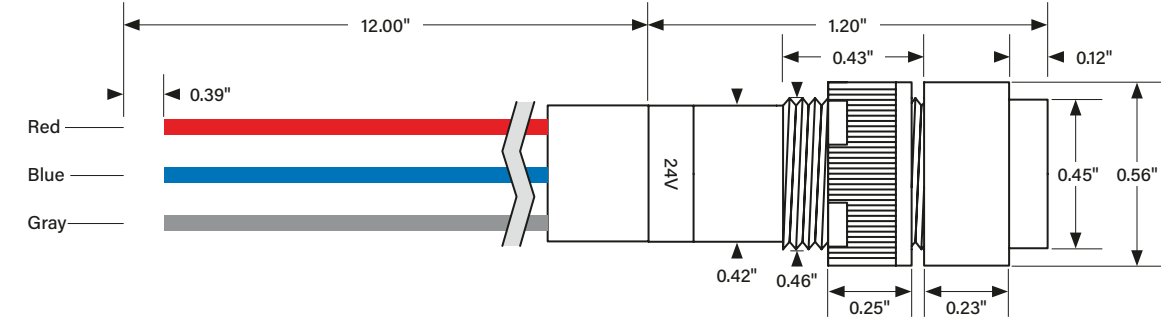
- IP65 rated for wet locations
- Simple-to-replace parts for emergency applications

# Replacement Unit

## Standard Test Switches

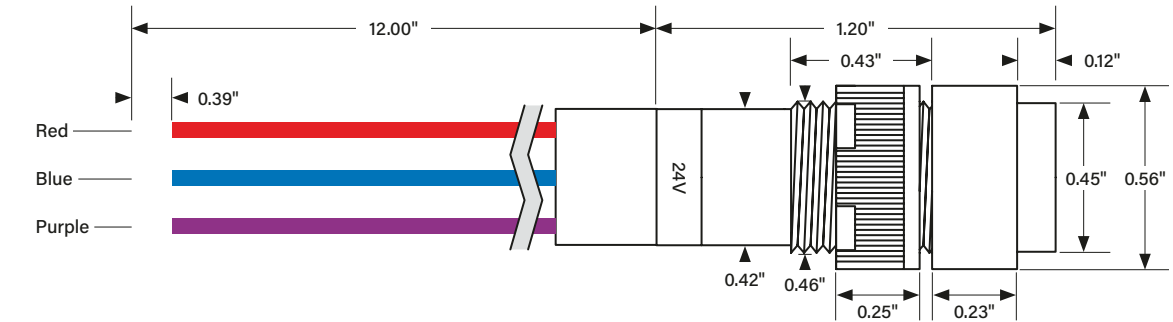
CATALOG NUMBER	DESCRIPTION	EASY CODE	UPC
KT-EMRG-TESTSWITCH-LED1	Replacement test switch for standard 5-500 and 12-1200 LED DC emergency packs	SQG-89	843654124292

### FOR NiCd BATTERY



CATALOG NUMBER	DESCRIPTION	EASY CODE	UPC
KT-EMRG-TESTSWITCH-LED2	Replacement test switch for CEC compliant 5C-500 and 12C-1200 LED DC emergency packs	CJK-93	843654123509

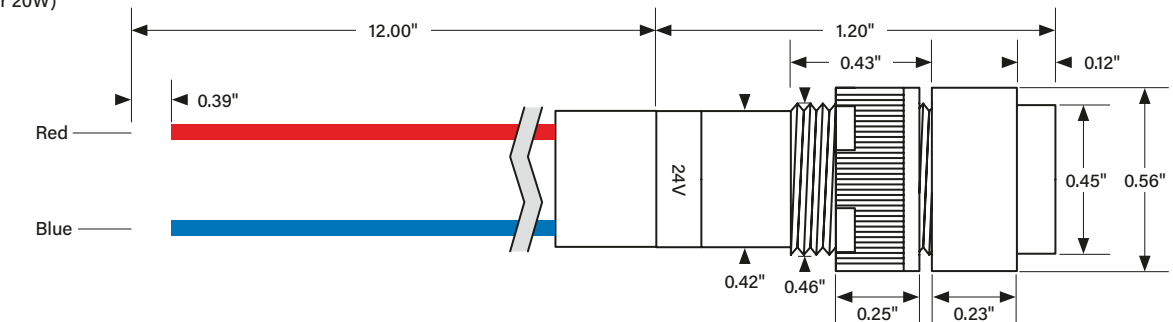
### FOR LiFePO4 BATTERY



CATALOG NUMBER	DESCRIPTION	EASY CODE	UPC
KT-EMRG-TESTSWITCH-LED3	Replacement test switch for 20W self-diagnostic DC LED emergency packs	HOD-44	843654130033

### FOR LiFePO4 BATTERY

(Special for 20W)

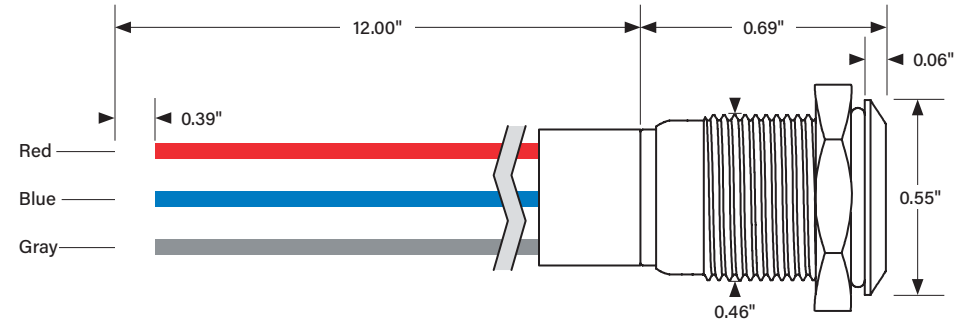


# Replacement Unit

## Waterproof Test Switches

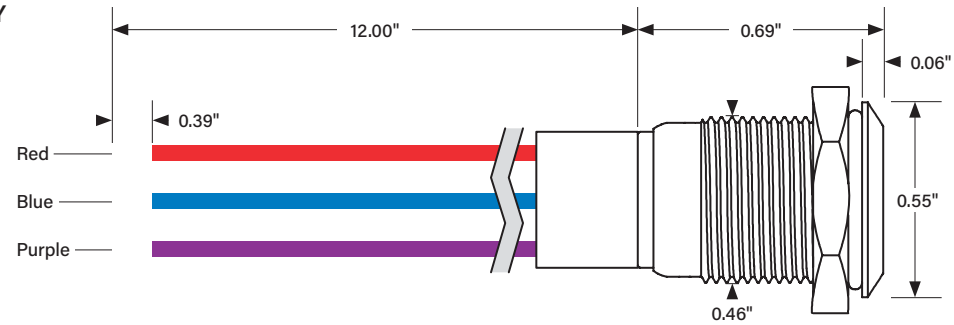
CATALOG NUMBER	DESCRIPTION	EASY CODE	UPC
KT-EMRG-LED-TS-IP65	IP65 rated test switch for standard 5W and 12W DC LED emergency packs	UWF-20	890949017173

FOR NiCd BATTERY



CATALOG NUMBER	DESCRIPTION	EASY CODE	UPC
KT-EMRG-LED2-TS-IP65	IP65 rated test switch for CEC compliant 5W and 12W DC LED emergency packs	MDB-29	843654130019

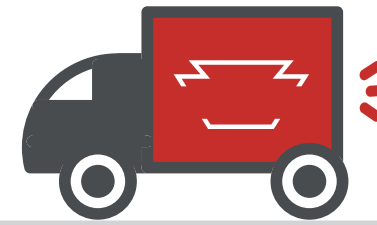
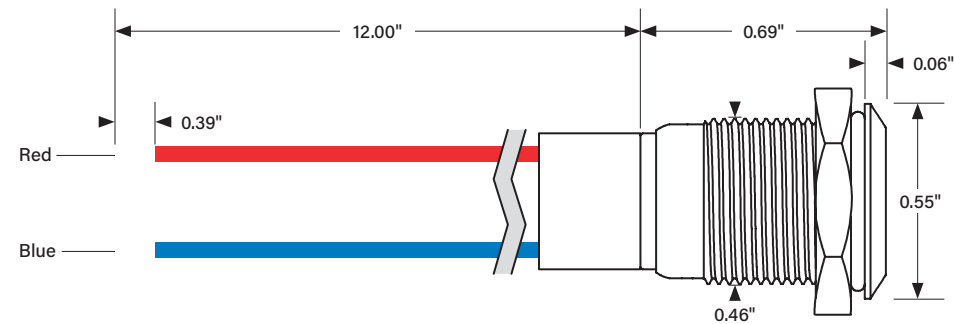
FOR LiFePO4 BATTERY



CATALOG NUMBER	DESCRIPTION	EASY CODE	UPC
KT-EMRG-LED3-TS-IP65	IP65 rated test switch for 20W self-diagnostic DC LED emergency pack	UYM-87	843654130026

FOR LiFePO4 BATTERY

(Special for 20W)



With 4 major distribution centers, we pledge to ship most items the very same day you place your order – and same-day pickup is available, too.

**[ Quick Response ]**



# Ballast

## Features & Benefits


- Fluorescent emergency backup solutions for all common fluorescent lamp types
- Each EM pack is compatible with different fluorescent lamp loads
- Compatible with most existing instant start and program start fluorescent ballasts
- Evaluated to UL 924 requirements
- UL Listed for field or factory installation
- 5-year warranty

### Linear Fluorescent EMRG

CATALOG NUMBER	INPUT VOLTAGE	MAX LUMENS	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	CEC COMPLIANT
KT-EMRG-500 /B	120/277V	500	Load Dependent	Load Dependent	One Piece	Standard Wire Leads	90 Minutes	No
KT-EMRG-700 /B	120/277V	700	Load Dependent	Load Dependent	One Piece	Standard Wire Leads	90 Minutes	No
KT-EMRG-700C	120/277V	700	Load Dependent	Load Dependent	One Piece	Standard Wire Leads	90 Minutes	Yes

Length	9.5"	
Width	2.4"	
Height	1.5"	

CATALOG NUMBER	INPUT VOLTAGE	MAX LUMENS	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	CEC COMPLIANT
KT-EMRG-500-SL /B	120/277V	500	Load Dependent	Load Dependent	One Piece	Standard Wire Leads	90 Minutes	No
KT-EMRG-700-SL /B	120/277V	700	Load Dependent	Load Dependent	One Piece	Standard Wire Leads	90 Minutes	No

Length	11.7"	
Width	2"	
Height	1.18"	

# Ballast

### Linear Fluorescent EMRG


CATALOG NUMBER	INPUT VOLTAGE	MAX LUMENS	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	CEC COMPLIANT
KT-EMRG-1400 /B	120/277V	1400	Load Dependent	Load Dependent	One Piece	Standard Wire Leads	90 Minutes	No

Length	13.4"	
Width	2.4"	
Height	1.5"	

CATALOG NUMBER	INPUT VOLTAGE	MAX LUMENS	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	CEC COMPLIANT
KT-EMRG-1400-SL /B	120/277V	1400	Load Dependent	Load Dependent	One Piece	Standard Wire Leads	90 Minutes	No

Length	14.25"	
Width	2.1"	
Height	1.19"	

CATALOG NUMBER	INPUT VOLTAGE	MAX LUMENS	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	CEC COMPLIANT
KT-EMRG-800-T5 /B	120/277V	800	Load Dependent	Load Dependent	One Piece	Standard Wire Leads	90 Minutes	No
KT-EMRG-800C-T5	120/277V	800	Load Dependent	Load Dependent	One Piece	Standard Wire Leads	90 Minutes	Yes

Length	17.6"	
Width	1.28"	
Height	1.19"	

CATALOG NUMBER	INPUT VOLTAGE	MAX LUMENS	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	CEC COMPLIANT
KT-EMRG-1300-T5	120/277V	1300	Load Dependent	Load Dependent	One Piece	Standard Wire Leads	90 Minutes	No

Length	21.5"	
Width	1.28"	
Height	1.19"	

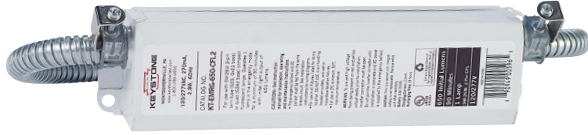
Chart continues on next page

# Ballast

Chart continued from previous page

### CFL Fluorescent EMRG

CATALOG NUMBER	INPUT VOLTAGE	MAX LUMENS	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	CEC COMPLIANT
KT-EMRG-650-CFL2	120/277V	650	Load Dependent	Load Dependent	One Piece	Dual Flex Cable	90 Minutes	No
KT-EMRG-750-CFL4 /B	120/277V	750	Load Dependent	Load Dependent	One Piece	Dual Flex Cable	90 Minutes	No

Length	9.5"	
Width	2.4"	
Height	1.5"	

CATALOG NUMBER	INPUT VOLTAGE	MAX LUMENS	OUTPUT VOLTAGE	OUTPUT CURRENT	CONSTRUCTION TYPE	WIRE TYPE	ILLUMINATION TIME	CEC COMPLIANT
KT-EMRG-1400C-CFL4	120/277V	1400	Load Dependent	Load Dependent	One Piece	Dual Flex Cable	90 Minutes	Yes

Length	13.4"	
Width	2.4"	
Height	1.5"	



Powerful products. Strong customer service. Unwavering commitment.  
You can count on Keystone. Always.

**[ A Reputation For Excellence ]**



# Programmable Plug-in



## Features & Benefits

- Programmable via Keystone's SmartCurrent Flex programmer kit:
  - Dim to off, dimming curve selection, temperature protections, end-of-life settings
- Easy plug-in programming interface
- Programmable in 1 mA increments
- 0-10V dimming down to 1%
- Optional AUX power output—programmable 12-24V for low-power applications
- Short circuit overload and open load protection
- Flicker-free—JA10 & IEEE 1879 compliant
- UL 8750, Class P
- Meets FCC Part 15 (Class B) consumer limits



# Programmable Plug-in



## Programmable Plug-in

CATALOG NUMBER	MAX. OUTPUT POWER	INPUT VOLTAGE	OUTPUT CURRENT	OUTPUT VOLTAGE	OCV	CLASS 2		CASE STYLE	CASE DESIGNATION	AUX VOLTAGE
						US	CAN			
KTLD-30-UV-P1050-55-VDIM-LT1	30W	120-277V	105-1050mA	8-55V	60V	Yes	Yes	Linear	LT1	No
KTLD-50-UV-P1400-55-VDIM-LT1	50W	120-277V	140-1400mA	8-55V	60V	Yes	Yes	Linear	LT1	No
KTLD-85-UV-P2300-55-VDIM-LT2	85W	120-277V	230-2300mA	8-55V	60V	Yes	Yes	Linear	LT2	No
KTLD-30-UV-P1050-55-VDIM-CR-LT1	30W	120-277V	105-1050mA	8-55V	60V	Yes	Yes	Linear	LT1	12-24V
KTLD-50-UV-P1400-55-VDIM-CR-LT1	50W	120-277V	140-1400mA	8-55V	60V	Yes	Yes	Linear	LT1	12-24V
KTLD-85-UV-P2300-55-VDIM-CR-LT2	85W	120-277V	230-2300mA	8-55V	60V	Yes	Yes	Linear	LT2	12-24V

Length	11.02"		CASE STYLE LT1
Width	1.18"		
Height	0.84"		
Length	14.96"		CASE STYLE LT2
Width	1.18"		
Height	1.00"		

## Programmer Kit

CATALOG NUMBER	DISCRIPTION	
KTLD-P-PGMR-1	LED Driver Programmer   USB male to USB female. For use with P-Series Programmable LED Drivers. Mates with KTLD-P-USB-T4 to connect to LED Driver.	
KTLD-P-USB-T4	LED Driver Programming Cable   Cable 3 ft USB to 4-Pin Terminal Mates with KTLD-P-PGMR-1 to connect to LED Driver	

# Programmable Cradle



## Features & Benefits

- Dimmable with 0-10V dimmer (dim-to-off)
- Programmable output current via Keystone's SmartCurrent cradle
- Short circuit overload and open load protection
- U and W case styles feature auxiliary power: 12Vdc; 200mA max.
- Meets FCC Part 15 (Class B) consumer limits
- UL 8750, Class P
- Pre-programming available upon request



# Programmable Cradle



## Programmable - Cradle

CATALOG NUMBER	MAX. OUTPUT POWER	INPUT VOLTAGE	OUTPUT CURRENT	OUTPUT VOLTAGE	OCV	CLASS 2		CASE STYLE	CASE DESIGNATION
						US	CAN		
KTLD-12-UV-SC500-56-VDIM-AF1	12W	120-277V	120-500mA	10-56V	60V	Yes	No	Linear	AF1
KTLD-20-UV-SC730-56-VDIM-AF4	20W	120-277V	200-730mA	10-56V	60V	Yes	No	Linear	AF4
KTLD-25-UV-SC1250-56-VDIM-W1	25W	120-277V	420-1250mA	10-56V	60V	Yes	No	Compact	W1
KTLD-25-UV-SC1050-56-VDIM-AQ7	25W	120-277V	350-1050mA	10-56V	60V	Yes	No	Puck	AQ7
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	Compact	W1
KTLD-50-UV-SC1400-56-VDIM-U7	50W	120-277V	470-1400mA	10-56V	60V	Yes	No	Linear	U7
KTLD-70-UV-SC2800-56-VDIM-W2	70W	120-277V	900-2800mA	10-56V	60V	Yes	No	Compact	W2
KTLD-85-UV-SC2600-56-VDIM-U4	85W	120-277V	860-2600mA	10-56V	60V	Yes	No	Linear	U4
KTLD-100-UV-SC3000-56-VDIM-U4	100W	120-277V	1500-3000mA	10-56V	60V	Yes	No	Linear	U4

Length	4.89"		CASE STYLE AF1
Width	1.30"		
Height	0.79"		

Length	5.53"		CASE STYLE AF4
Width	1.30"		
Height	0.83"		

Length	5.00"		CASE STYLE W1
Width	2.38"		
Height	1.00"		

Length	3.15"		CASE STYLE AQ7
Width	3.07"		
Height	1"		

Length	11.02"		CASE STYLE U7
Width	1.20"		
Height	1.00"		

Length	5"		CASE STYLE W2
Width	3"		
Height	1.38"		

Length	16.89"		CASE STYLE U4
Width	1.18"		
Height	1.00"		

Continued on next page



# Programmable Cradle



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

**SmartCurrent Cradle: KTLD-SC-PGMR-1 / G2**

**For SmartCurrent Drivers with U Style Cases:**

- SmartCurrent Cradle
- Computer

**Works with:**

- KTLD-30-UV-SC1050-56-VDIM-U7
- KTLD-50-UV-SC1400-56-VDIM-U7
- KTLD-85-UV-SC2600-56-VDIM-U4
- KTLD-100-UV-SC3000-56-VDIM-U4



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

# Programmable Cradle

**Jig Adapter: KTLD-SC-ADPT-1B / G2B**

**For SmartCurrent Drivers with W1 Style Cases:**

- SmartCurrent Cradle
- Computer

**Works with:**

- KTLD-25-UV-SC1250-56-VDIM-W1
- KTLD-40-UV-SC1400-56-VDIM-W1



**Jig Adapter: KTLD-SC-ADPT-1C / G2**

**For SmartCurrent Drivers with AF Style Cases:**

- SmartCurrent Cradle
- Computer

**Works with:**

- KTLD-12-UV-SC500-56-VDIM-AF1
- KTLD-20-UV-SC730-56-VDIM-AF4



**Jig Adapter: KTLD-SC-ADPT-1D**

**For SmartCurrent Drivers with AQ7 Style Cases:**

- SmartCurrent Cradle
- Computer

**Works with:**

- KTLD-25-UV-SC1050-56-VDIM-AQ7



**Jig Adapter: KTLD-SC-ADPT-1E**

**For SmartCurrent Drivers with W2 Style Cases:**

- SmartCurrent Cradle
- Computer

**Works with:**

- KTLD-70-UV-SC2800-56-VDIM-W2



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



# Selectable

# Selectable



## Features & Benefits

- Dimmable with 0-10V dimmer down to >10%
- Adjustable output current: 4 selectable output currents via slide switch
- Reduce SKUs with output flexibility
- Multiple form factors for a variety of applications
- Low optical flicker
- Built-in surge protection
- Meets FCC Part 15 (Class B) consumer limits
- Class 2 Output
- UL 8750, Class P



## 15W

CATALOG NUMBER	OCV	TYPICAL EFFICIENCY AT 120V	TYPICAL EFFICIENCY AT 240V	TYPICAL EFFICIENCY AT 277V	CLASS 2		INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER
					US	CANADA				
KTLD-15-UV-PS300-54-VDIM-LP1	60V	84%	84%	84%	yes	no	120-277V	30-54V	200mA	10.8W
									230mA	12.4W
									270mA	14.6W
									300mA	16.2W
KTLD-15-UV-PS350-42-VDIM-LP1	47V	84%	84%	84%	yes	yes	120-277V	20-42V	260mA	10.9W
									290mA	12.2W
									320mA	13.4W
									350mA	14.7W

Length	4.5"	
Width	1.34"	
Height	0.94"	

CASE STYLE LP1

## 25W

CATALOG NUMBER	OCV	TYPICAL EFFICIENCY AT 120V	TYPICAL EFFICIENCY AT 240V	TYPICAL EFFICIENCY AT 277V	CLASS 2		INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER
					US	CANADA				
KTLD-25-UV-PS450-54-VDIM-LP2	60V	87%	88%	88%	yes	no	120-277V	30-54V	300mA	16.2W
									350mA	18.9W
									400mA	21.6W
									450mA	24.3W
KTLD-25-UV-PS600-42-VDIM-LP2	47V	86%	87%	87%	yes	yes	120-277V	20-42V	450mA	18.9W
									500mA	21.0W
									550mA	23.1W
									600mA	25.2W

Length	6.34"	
Width	1.34"	
Height	0.95"	

CASE STYLE LP2

# Selectable

## 35W & 45W

CATALOG NUMBER	OCV	TYPICAL EFFICIENCY AT 120V	TYPICAL EFFICIENCY AT 240V	TYPICAL EFFICIENCY AT 277V	CLASS 2		INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER
					US	CANADA				
KTLD-35-UV-PS650-54-VDIM-LM1	60V	90%	90%	90%	yes	no	120-277V	30-54V	500mA	27.0W
									550mA	29.7W
									600mA	32.4W
									650mA	35.1W
KTLD-35-UV-PS850-42-VDIM-LM1	47V	89%	90%	90%	yes	yes	120-277V	20-42V	700mA	29.4W
									750mA	31.5W
									800mA	33.6W
									850mA	35.7W
KTLD-45-UV-PS850-54-VDIM-LM1	60V	89%	90%	90%	yes	no	120-277V	30-54V	700mA	37.8W
									750mA	40.5W
									800mA	43.2W
									850mA	45.9W
KTLD-45-UV-PS1100-42-VDIM-LM1	47V	89%	90%	90%	yes	yes	120-277V	20-42V	900mA	37.8W
									950mA	39.9W
									1000mA	42.0W
									1100mA	46.2W

Length	9.49"	
Width	1.23"	
Height	1.15"	

CASE STYLE LM1

# Selectable

## 75W & 100W

CATALOG NUMBER	OCV	TYPICAL EFFICIENCY AT 120V	TYPICAL EFFICIENCY AT 240V	TYPICAL EFFICIENCY AT 277V	CLASS 2		INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	OUTPUT POWER
					US	CANADA				
KTLD-75-UV-PS1400-54-VDIM-LM2	60V	90%	91%	91%	yes	no	120-277V	30-54V	1100mA	59.4W
									1200mA	64.8W
									1300mA	70.2W
									1400mA	75.6W
KTLD-75-UV-PS1700-42-VDIM-LM2	47V	89%	90%	90%	yes	yes	120-277V	20-42V	1400mA	58.8W
									1500mA	63.0W
									1600mA	67.2W
									1700mA	71.4W
KTLD-100-UV-PS1800-54-VDIM-LM2	60V	90%	91%	91%	yes	no	120-277V	30-54V	1500mA	84W
									1600mA	89.6W
									1700mA	95.2W
									1800mA	100.8W
KTLD-100-UV-PS2300-42-VDIM-LM2	47V	89%	90%	90%	yes	yes	120-277V	20-42V	2000mA	84.0W
									2100mA	88.2W
									2200mA	92.4W
									2300mA	96.9W

Length	11.43"	
Width	1.23"	
Height	1.15"	

CASE STYLE LM2

# Phase Dimming



## Features & Benefits

- Dimmable with leading and trailing edge dimmers
- Variety of case styles
- Power factor: >0.90
- Evaluated to UL 8750 standards
- Meets FCC Part 15 (Class B) consumer limits



# Phase Dimming

## Phase Dimming

CATALOG NUMBER	WATTAGE FAMILY	OUTPUT CURRENT RANGE	INPUT VOLT-AGE	POWER FACTOR	DIMMING	TYPICAL OUTPUT CURRENT	OUTPUT VOLTAGE	EFFICIENCY	CASE STYLE
KTLD-5-1-xxx-FDIM-AF5	5W	130-200mA	120V	>0.9	Phase Control	130mA	19-38Vdc	74%	AF5
						140mA	18-36Vdc	74%	
						150mA	16-33Vdc	74%	
						200mA	14-28Vdc	74%	
KTLD-12-1-xxx-FDIM-AF1	12W	350-700mA	120V	>0.9	Phase Control	350mA	6-32Vdc	75%	AF1
						380mA	5-32Vdc	75%	
						500mA	5-24Vdc	77%	
						600mA	5-20Vdc	77%	
						700mA	5-17Vdc	77%	
KTLD-12-1-xxx-FDIM-F5	12W	220-700mA	120V	>0.9	Phase Control	220mA	27-54Vdc	75%	F5
						300mA	20-40Vdc	75%	
						350mA	17-34Vdc	75%	
						400mA	15-30Vdc	75%	
						500mA	12-24Vdc	77%	
						600mA	10-20Vdc	77%	
						700mA	8-17Vdc	77%	
KTLD-14-1-xxx-FDIM-AF1	14W	260-800mA	120V	>0.9	Phase Control	260mA	18-54Vdc	77%	AF1
						300mA	16-47Vdc	77%	
						350mA	10-40Vdc	77%	
						400mA	12-35Vdc	77%	
						500mA	10-28Vdc	77%	
						600mA	10-40Vdc	77%	
						700mA	7-20Vdc	77%	
						800mA	6-18Vdc	77%	
KTLD-16-1-xxx-FDIM-AQ1	16W	300-1100mA	120V	>0.9	Phase Control	300mA	17-53Vdc	80%	AQ1
						350mA	15-46Vdc	80%	
						400mA	13-40Vdc	80%	
						500mA	10-32Vdc	80%	
						600mA	9-27Vdc	80%	
						700mA	7-23Vdc	80%	
						800mA	7-20Vdc	80%	
						900mA	6-18Vdc	80%	
						1000mA	6-16Vdc	80%	
						1100mA	6-15Vdc	80%	

Chart continues on next page

# Phase Dimming

Chart continued from previous page

## Phase Dimming

CATALOG NUMBER	WATTAGE FAMILY	OUTPUT CURRENT RANGE	INPUT VOLTAGE	POWER FACTOR	DIMMING	TYPICAL OUTPUT CURRENT	OUTPUT VOLTAGE	EFFICIENCY	CASE STYLE
KTLD-25-1-xxx-FDIM-AF4	25W	600-1380mA	120V	>0.9	Phase Control	600mA	21-41Vdc	82%	AF4
						700mA	18-36Vdc	82%	
						800mA	16-32Vdc	82%	
						900mA	14-28Vdc	82%	
						1000mA	12-25Vdc	82%	
						1100mA	11-23Vdc	81%	
						1200mA	10-21Vdc	81%	
						1380mA	10-19Vdc	81%	
KTLD-25-1-xxx-FDIM-AQ1	25W	300-1200mA	120V	>0.9	Phase Control	300mA	28-84Vdc	80%	AQ1
						350mA	24-72Vdc	80%	
						400mA	21-63Vdc	80%	
						500mA	17-50Vdc	80%	
						600mA	14-42Vdc	80%	
						700mA	12-36Vdc	80%	
						800mA	10-32Vdc	80%	
						900mA	9-28Vdc	80%	
						1000mA	8-25Vdc	80%	
						1100mA	7-23Vdc	80%	
						1200mA	7-21Vdc	80%	
						KTLD-36-1-xxx-FDIM-AF6	36W	1000-2000mA	
1100mA	10-33Vdc	83%							
1200mA	10-30Vdc	83%							
1300mA	10-28Vdc	82%							
1400mA	10-26Vdc	82%							
1500mA	10-24Vdc	82%							
1600mA	10-22.5Vdc	82%							
1700mA	10-21Vdc	81%							
1800mA	10-20Vdc	81%							
2000mA	10-16Vdc	81%							

# Phase Dimming

Mounting	4.57"	
Length	4.86"	
Width	0.79"	
Height	1.30"	

CASE STYLE AF1

Mounting	5.20"	
Length	5.49"	
Width	0.79"	
Height	1.30"	

CASE STYLE AF4

Mounting	3.42"	
Length	3.71"	
Width	0.79"	
Height	1.30"	

CASE STYLE AF5

Mounting	6.90"	
Length	6.29"	
Width	0.79"	
Height	1.30"	

CASE STYLE AF6

Mounting	2.75"	
Length	3.07"	
Width	3.50"	
Height	0.98"	

CASE STYLE AQ1

Mounting	N/A	
Length	3.15"	
Width	0.80"	
Height	1.34"	

CASE STYLE F5

# Micro Case



## Features & Benefits

- Evaluated to UL 8750 standards, Class P
- Power factor: >0.90
- Extremely small case
- SAM qualified



# Micro Case

## 12V Micro Case

CATALOG NUMBER	INPUT VOLTAGE	MAX WATTAGE	OUTPUT VOLTAGE	MAXIMUM CURRENT
KTLD-60-UV-12V-MC1	120-277Vac	60W	12V	5.00A
Length	5.67"			
Width	0.82"			
Height	0.78"			

## 24V Micro Case

CATALOG NUMBER	INPUT VOLTAGE	MAX WATTAGE	OUTPUT VOLTAGE	MAXIMUM CURRENT
KTLD-100-UV-24V-MC2	120-277Vac	100W	24V	4.00A
Length	5.94"			
Width	1.07"			
Height	0.78"			



# Standard Case



## Features & Benefits

- Evaluated to UL 8750 standards, Class P
- Variety of case styles
- SAM qualified options (UL iQ Listed)



# Standard Case

## Standard Case

CATALOG NUMBER	WATTAGE FAMILY	RATED OUTPUT VOLTAGE	MAXIMUM POWER	MAXIMUM CURRENT	INPUT VOLTAGE	SAM (UL IQ QUALIFIED)	ADDITIONAL APPROVALS	
KTLD-10-1N-12V-F3	10W	12Vdc	10W	0.83A	120Vac	Yes	cUL US	
KTLD-24-UV-12V-AK1	24W	12Vdc	24W	2.00A	120-277Vac	Yes		
KTLD-24-UV-24V-AK1		24Vdc	24W	1.00A	120-277Vac	Yes		
KTLD-60-UV-12V	60W	12Vdc	60W	5.00A	120-277Vac	Yes	cUL US	
KTLD-60-UV-12V-67-AP4		12Vdc	60W	5.00A	120-277Vac	Yes		
KTLD-60-UV-12V-VDIM-L5 (0-10V Dimmable)		12Vdc	60W	5.00A	120-277Vac	Yes		
KTLD-60-UVN-12V-SC1		12Vdc	60W	5.00A	120-277Vac	N/A		UL LISTED FC
KTLD-60-UV-24V		24Vdc	60W	2.50A	120-277Vac	Yes		
KTLD-80-UV-12V	80W	12Vdc	80W	6.70A	120-277Vac	Yes	cUL US	
KTLD-80-UV-24V		24Vdc	80W	3.30A	120-277Vac	Yes		
KTLD-100-UV-12V	100W	12Vdc	100W	8.00A	120-277Vac	Yes	cUL US	
KTLD-100-UV-24V		24Vdc	100W	4.00A	120-277Vac	Yes		
KTLD-120-UV-12V-L10	120W	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](http://www.ul.com).

# Electronic Fluorescent



## Features & Benefits

- Extensive portfolio of electronic and magnetic ballasts covers legacy fluorescent lighting applications
- UL Listed



# Electronic Fluorescent

## T12

CATALOG NUMBER	PRIMARY LAMP TYPE	NO. OF LAMPS	INPUT VOLTAGE	WARRANTY	DESCRIPTION
KTEB-120-1-TP	F20T12	1	120V	3 Years	1 lamp F20T12, normal power factor
KTEB-120-1-TP-EMI	F20T12	1	120V	3 Years	1 lamp F20T12, FCC Class B, normal power factor
KTEB-220-1-TP-EMI		2	120V	3 Years	2 lamp F20T12, FCC Class B, normal power factor
KTEB-140-1-TP-EMI	F40T12	1	120V	3 Years	1 lamp F40T12, FCC Class B, normal power factor
KTEB-240-1-TP-PIC		2	120V	3 Years	2 lamp F40T12, F40T12ES, and F34T12, high power factor
KTEB-240-UV-TP-PIC	120-277V		3 Years	2 lamp F40T12, F40T12ES, and F34T12, high power factor	
KTEB-240-1-TP / C	F34T12	2	120V	3 Years	2 lamp F34T12 or F40T12
KTEB-275-1-TP-PIC-SL	F96T12	2	120V	3 Years	1 or 2 lamp F96T12 and F96T12ES, 9" case
KTEB-275-UV-TP-PIC			120-277V	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	
KTEB-2110-1-TP-PIC	F96T12HO	2	120V	3 Years	1 or 2 lamp F96T12HO and F96T12HOES
KTEB-2110-UV-TP-PIC			120-277V	3 Years	1 or 2 lamp F96T12HO and F96T12HOES
KTEB-260HO-UV-PS-SL	F48T12HO	2	120-277V	3 Years	1 or 2 lamps F48T12HO and F48T12HO/ES

## T8 Instant Start

CATALOG NUMBER	PRIMARY LAMP TYPE	NO. OF LAMPS	INPUT VOLTAGE	WARRANTY	LIGHT OUTPUT	DESCRIPTION
KTEB-232-UV-IS-L-P	F17T8 F25T8 F32T8*	2	120-277V	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
KTEB-332-UV-IS-L-P		3	120-277V	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
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		4	120-277V	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
KTEB-259-UV-IS-N	F96T8	2	120-277V	5 Years	Normal	1 or 2 lamp F96T8, standard output
KTEB-286HO-UV-IS-N	F96T8HO	2	120-277V	5 Years	Normal	1 or 2 lamp F96T8HO, standard output

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

# Electronic Fluorescent

## T8 Program Start

CATALOG NUMBER	PRIMARY LAMP TYPE	NO. OF LAMPS	INPUT VOLTAGE	WARRANTY	LIGHT OUTPUT	DESCRIPTION
KTEB-270-UV-PS-N /C1	F58T8 F70T8	2	120-277V	5 Years	Normal	1 or 2 lamp F58/70 T8 freezer ballast with Molex connectors
KTEB-286HO-UV-PS-N	F96T8HO	2	120-277V	5 Years	Normal	1 or 2 lamp F96T8HO, standard output

## T5

CATALOG NUMBER	PRIMARY LAMP TYPE	NO. OF LAMPS	INPUT VOLTAGE	WARRANTY	DESCRIPTION
KTEB-228HE-UV-PS	F14T5, F21T5, F28T5	1 or 2	120-277V	5 Years	1 or 2 lamp F14/21/28 T5 program start, 90°C rated
5 Years				1 or 2 lamp F14/21/28 T5 program start, 90°C rated, 9" case	
KTEB-228HE-UV-PS-SL		1	120V	3 Years	1 lamp F14/21/28T5 rapid start
KTEB-128HE-1-RS	F21T5, F28T5, F35T5	1	120V	3 Years	1 lamp F21/28/35T5 rapid start
KTEB-135HE-1-RS					

## T5HO

CATALOG NUMBER	PRIMARY LAMP TYPE	NO. OF LAMPS	INPUT VOLTAGE	WARRANTY	DESCRIPTION
KTEB-239HO-UV-PS-SL	F24T5HO or F39T5HO	1 or 2	120-277V	5 Years	1 or 2 lamp F24T5HO or F39T5HO program start, 90°C rated, 9" case
KTEB-254HO-UV-PS	F54T5HO	1 or 2	120-277V	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
KTEB-454HO-UV-PS		3 or 4	120-277V	5 Years	3 or 4 lamp F54T5HO program start, 90°C rated

# Electronic Fluorescent

## Compact Fluorescent

CATALOG NUMBER	PRIMARY LAMP TYPE	NO. OF LAMPS	INPUT VOLTAGE	WARRANTY	DESCRIPTION
CC579TP	9W CFL	1	120V	3 Years	5, 7, 9W, 2-pin CFL, magnetic
CC1322TP	13W CFL	1	120V	3 Years	13W, 2-pin CFL, magnetic
113SHPTP				3 Years	1 lamp 13W 2-pin CFL, high power factor, magnetic
KTEB-213-UV-PS-DW		1 or 2	120-277V	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	
KTEB-218-UV-PS-DW	18W CFL	1 or 2	120-277V	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
KTEB-226-UV-PS-DW	26W CFL	1 or 2	120-277V	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
KTEB-242-UV-PS-DW	42W CFL	1 or 2	120-277V	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

CATALOG NUMBER	PRIMARY LAMP TYPE	NO. OF LAMPS	INPUT VOLTAGE	WARRANTY	DESCRIPTION
SS22WSTP	FC8T9	1	120V	3 Years	22W circline, small case, self-start, magnetic with sockets
KTEB-1C22-1-TP-WS	FC22T9	1	120V	3 Years	1 lamp 22W, small case, with sockets
KTEB-140-1-TP-EMI-WS	FC32T9 or FC40T9	1	120V	3 Years	1 lamp 32 or 40W, with sockets
KTEB-2C72-1-TP-WS	FC22T9 & FC32T9 or FC32T9 & FC40T9	2	120V	3 Years	2 lamp 22W & 32W or 32 & 40W, with sockets

# Series Wiring



## Sign Ballasts

### Features & Benefits

- Wires exactly the same as traditional magnetic ballasts for seamless compatibility and installation
- Electronic sign ballasts weigh up to 50% less than heavy magnetic ballasts
- Ballasts operate both T8HO and T12HO lamps, reducing inventory
- Minimum starting temperature of -29°C/-20°F
- 120V-277V Input
- Series wiring



# Series Wiring

## SMARTWIRE

### T12HO

CATALOG NUMBER	INPUT VOLTAGE	NO. OF LAMPS	COMBINED LAMP LENGTH	DESCRIPTION
KTSB-E-0416-12-UV-S*	120-277V	1-2	4'-16'	1-2 T12HO lamps with a combined length of 4-16 feet
KTSB-E-1232-24-UV-S*		2-4	12'-32'	2-4 T12HO lamps with a combined length of 12-32 feet
KTSB-E-2048-46-UV-S*		4-6	20'-48'	4-6 T12HO lamps with a combined length of 20-48 feet

\* For use with lamps 8ft or shorter. For lamps over 8ft use KTSB-E-1040-14-UV

## SMARTWIRE

### T8HO

CATALOG NUMBER	INPUT VOLTAGE	NO. OF LAMPS	COMBINED LAMP LENGTH	DESCRIPTION
KTSB-E-0416-12-UV-S*	120-277V	1-2	4'-12'	1-2 T8HO lamps with a combined length of 4-12 feet
KTSB-E-1232-24-UV-S*		2-4	12'-24'	2-4 T8HO lamps with a combined length of 12-24 feet
KTSB-E-2048-46-UV-S*		4-6	20'-36'	4-6 T8HO lamps with a combined length of 20-36 feet

\* For use with lamps 8ft or shorter. For lamps over 8ft use KTSB-E-1040-14-UV

# Parallel Wiring



## Sign Ballasts

### Features & Benefits

- Ideal for new sign construction or replacing early examples of electronic sign ballast installs
- Operates both T12HO and T8HO lamps
- 120-277V input
- UL Listed



# Parallel Wiring

PARALLELWIRE

### T12HO

CATALOG NUMBER	INPUT VOLTAGE	NO. OF LAMPS	COMBINED LAMP LENGTH	DESCRIPTION
KTSB-E-0216-12-UV*	120-277	1-2	2'-16'	1-2 T12HO lamps with a combined length of 2-16 feet
KTSB-E-0432-14-UV*		1-4	4'-32'	1-4 T12HO lamps with a combined length of 4-32 feet
KTSB-E-1040-14-UV			10'-40'	1-4 T12HO lamps with a combined length of 10-40 feet
KTSB-E-0848-46-UV*		4-6	8'-48'	4-6 T12HO lamps with a combined length of 8-48 feet

\* For use with lamps 8ft or shorter. For lamps over 8ft use KTSB-E-1040-14-UV

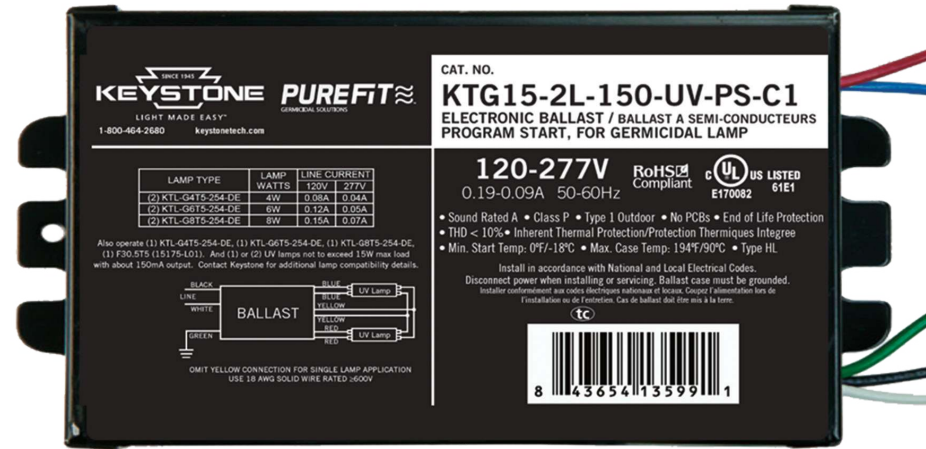
PARALLELWIRE

### T8HO

CATALOG NUMBER	INPUT VOLTAGE	NO. OF LAMPS	COMBINED LAMP LENGTH	DESCRIPTION
KTSB-E-0216-12-UV*	120-277	1-2	4'-12'	1-2 T8HO lamps with a combined length of 4-12 feet
KTSB-E-0432-14-UV*		1-4	4'-24'	1-4 T8HO lamps with a combined length of 4-24 feet
KTSB-E-1040-14-UV			8'-32'	1-4 T8HO lamps with a combined length of 8-32 feet
KTSB-E-0848-46-UV*		4-6	16'-36'	4-6 T8HO lamps with a combined length of 16-36 feet

\* For use with lamps 8ft or shorter. For lamps over 8ft use KTSB-E-1040-14-UV





## Features & Benefits

- Ballast designed for germicidal/UV-C low-pressure mercury arc lamps
- Program start design ensures starting conditions that are optimal for lamp life
- 120-277V Input 50/60Hz
- UL Listed (Class P, Type 1 Outdoor, Type HL)
- 5-year warranty
- *To reference our UV-C Lamp Pairing Guide, scan QR code*



## Compact Case Type

CATALOG NUMBER	LAMP TYPE	NUMBER OF LAMPS	INPUT VOLTS	INPUT POWER	LAMP CURRENT	LAMP POWER PER LAMP
KTG15-2L-150-UV-PS-C1	KTL-G4T5-254-DE	1	120V	5.9W	150mA	3.4W
			277V	6.2W	150mA	3.4W
	2	120V	9.7W	150mA	3.4W	
		277V	10W	150mA	3.5W	
	KTL-G6T5-254-DE	1	120V	7.9W	150mA	5.2W
			277V	8.6W	150mA	5.4W
2		120V	13.7W	150mA	5.1W	
		277V	13.6W	150mA	5.1W	
KTL-G8T5-254-DE	1	120V	10.1W	150mA	7.2W	
		277V	10.4W	150mA	7.1W	
	2	120V	17.9W	150mA	7W	
		277V	17.7W	150mA	7W	
KTG40-2L-300-UV-PS-C1	KTL-G15T8-254-DE	1	120V	18W	300mA	14W
			277V	18W	300mA	14W
	2	120V	32W	295mA	14W	
		277V	32W	295mA	14W	
	KTL-G30T8-254-DE	1	120V	34W	295mA	29W
			277V	33W	295mA	29W
KTL-G36T8-254-DE	1	120V	42W	295mA	37W	
		277V	42W	295mA	37W	
KTG45-2L-370-UV-PS-C1	KTL-G16T5-254-4P (GPH317T5L/4P)	1	120V	19W	380mA	12W
			277V	19W	380mA	12W
	2	120V	36W	350mA	13W	
		277V	35W	350mA	13W	
	KTL-G17T5-254-4P (GPH357T5L/4P)	1	120V	20W	370mA	14W
			277V	21W	370mA	14W
	2	120V	36W	350mA	14W	
		277V	35W	350mA	13W	
	KTL-G22T5-254-4P	1	120V	24W	370mA	17W
			277V	24W	370mA	17W
	2	120V	42W	340mA	16W	
		277V	41W	340mA	16W	
	KTL-G36T5-254-4P	1	120V	42W	370mA	34W
			277V	41W	370mA	34W
	KTL-G18PLL-254-2G11	1	120V	21W	390mA	16W
			277V	22W	390mA	17W
	2	120V	38W	360mA	15W	
		277V	37W	360mA	15W	
KTL-G36PLL-254-2G11	1	120V	37W	380mA	31W	
		277V	38W	380mA	32W	
KTL-G30T8-254-DE	1	120V	39W	370mA	31W	
		277V	38W	370mA	30W	
KTL-G36T8-254-DE	1	120V	52W	370mA	43W	
		277V	52W	370mA	46W	
KTG75-1L-800-UV-PS-C2	KTL-G55T8-254-H0-DE	1	120V	61W	820mA	52W
			277V	60W	820mA	50W
	KTL-G75T8-254-H0-DE	1	120V	74W	810mA	63W
			277V	74W	810mA	63W

## Linear Case Type

CATALOG NUMBER	LAMP TYPE	NUMBER OF LAMPS	INPUT VOLTS	INPUT POWER	LAMP CURRENT	LAMP POWER PER LAMP
KTG200-2L-500-UV-PS-L4	KTL-G95T8-254-HO-DE	1	120V	71W	510mA	64W
			277V	74W	510mA	65W
		2	120V	136W	490mA	62W
			277V	134W	490mA	61W
	KTL-G55PLL-254-2G11	1	120V	53W	520mA	48W
			277V	54W	520mA	48W
		2	120V	104W	500mA	49W
			277V	99W	500mA	47W
KTG100-2L-480-UV-PS-L1	KTL-G16T5-254-4P (GPH317T5L/4P)	1	120V	19W	490mA	15W
			277V	19W	490mA	15W
		2	120V	35W	480mA	15W
			277V	35W	480mA	15W
	KTL-G17T5-254-4P (GPH357T5L/4P)	1	120V	21W	490mA	17W
			277V	21W	490mA	17W
		2	120V	39W	480mA	17W
			277V	39W	480mA	17W
	KTL-G22T5-254-4P	1	120V	25W	485mA	21W
			277V	25W	485mA	21W
		2	120V	48W	475mA	21W
			277V	47W	475mA	21W
	KTL-G36T5-254-4P	1	120V	48W	480mA	42W
			277V	47W	480mA	42W
		2	120V	89W	455mA	40W
			277V	87W	455mA	40W
	KTL-G36T8-254-DE	1	120V	60W	480mA	53W
			277V	59W	480mA	53W
		2	120V	108W	445mA	50W
			277V	107W	445mA	50W
	KTL-G36PLL-254-2G11	1	120V	46W	485mA	42W
			277V	46W	485mA	42W
		2	120V	88W	460mA	40W
			277V	87W	460mA	40W

Chart continues on next page

Chart continued from previous page

## Linear Case Type

CATALOG NUMBER	LAMP TYPE	NUMBER OF LAMPS	INPUT VOLTS	INPUT POWER	LAMP CURRENT	LAMP POWER PER LAMP
KTG75-2L-350-UV-PS-L1	KTL-G15T8-254-DE	1	120V	18W	350mA	16W
			277V	18W	350mA	16W
		2	120V	34W	345mA	15W
			277V	34W	345mA	15W
	KTL-G30T8-254-DE	1	120V	34W	350mA	31W
			277V	34W	350mA	31W
		2	120V	68W	345mA	31W
			277V	67W	345mA	31W
	KTL-G36T8-254-DE	1	120V	45W	350mA	42W
			277V	45W	350mA	42W
	KTL-G16T5-254-4P (GPH317T5L/4P)	1	120V	15W	350mA	12W
			277V	15W	350mA	12W
		2	120V	28W	345mA	13W
			277V	28W	345mA	13W
	KTL-G17T5-254-4P (GPH357T5L/4P)	1	120V	18W	350mA	15W
			277V	18W	350mA	15W
		2	120V	33W	345mA	15W
			277V	33W	345mA	15W
	KTL-G22T5-254-4P	1	120V	20W	350mA	18W
			277V	20W	350mA	18W
		2	120V	39W	345mA	18W
			277V	39W	345mA	18W
	KTL-G36T5-254-4P	1	120V	39W	350mA	36W
			277V	39W	350mA	36W
2		120V	75W	340mA	35W	
		277V	74W	340mA	35W	
KTL-G18PLL-254-2G11	1	120V	19W	350mA	16W	
		277V	19W	350mA	16W	
	2	120V	35W	345mA	16W	
		277V	35W	345mA	16W	
KTL-G36PLL-254-2G11	1	120V	37W	350mA	34W	
		277V	37W	350mA	34W	
	2	120V	75W	340mA	34W	
		277V	73W	340mA	34W	
KTG100-1L-800-UV-PS-L2	KTL-G55T8-254-HO-DE	1	120V	57W	825mA	52W
			277V	57W	825mA	52W
	KTL-G75T8-254-HO-DE	1	120V	76W	815mA	70W
			277V	76W	815mA	70W
	KTL-G95PLL-254-HO-2G11	1	120V	91W	805mA	85W
			277V	91W	805mA	85W
KTG150-1L-840-UV-PS-L3	KTL-G150T5-254-HO-4P	1	120V	123W	830mA	116W
			277V	123W	830mA	116W

# High Pressure Sodium

# High Pressure Sodium



## Features & Benefits

- Covers all legacy lighting applications
- Igniters and capacitors included with kits and sold separately
- UL Recognized



## High Pressure Sodium Ballast Kits

CATALOG NUMBER	LAMP WATTAGE	NO. OF TAPS	INPUT VOLTAGE	ANSI CODE
HPS-35R-1-KIT	35W	Single	120V	S76
HPS-50R-1-KIT	50W	Single	120V	S68
HPS-70R-1-KIT	70W	Single	120V	S62
HPS-70X-Q-KIT		Quad	120/208/240/277V	S62
HPS-100R-1-KIT	100W	Single	120V	S54
HPS-100X-Q-KIT		Quad	120/208/240/277V	S54
HPS-150R-1-KIT	150W	Single	120V	S55
HPS-150X-Q-KIT		Quad	120/208/240/277V	S55
HPS-250A-Q-KIT	250W	Quad	120/208/240/277V	S50
HPS-250A-P-KIT		5-Tap	120/208/240/277/480V	S50
HPS-400A-480-KIT	400W	Single	480V	S51
HPS-400A-Q-KIT		Quad	120/208/240/277V	S51
HPS-400A-P-KIT		5-Tap	120/208/240/277/480V	S51
HPS-600A-Q-KIT	600W	Quad	120/208/240/277V	S106
HPS-1000A-Q-KIT	1000W	Quad	120/208/240/277V	S52
HPS-1000A-P-KIT		5-Tap	120/208/240/277/480V	S52

## Ignitors

CATALOG NUMBER	LAMP WATTAGE	NO. OF TAPS	INPUT VOLTAGE
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



## Features & Benefits

- Covers all legacy lighting applications
- Core and coil construction; F-CAN versions available for select ANSI codes
- Igniters and capacitors included with kits and sold separately
- UL Recognized



## Metal Halide Ballast Kits

CATALOG NUMBER	LAMP WATTAGE	NO. OF TAPS	INPUT VOLTAGE	ANSI CODE
MH-50X-Q-KIT	50W	Quad	120/208/240/277V	M110
MH-70X-Q-KIT	70W	Quad	120/208/240/277V	M98
MH-100X-Q-KIT	100W	Quad	120/208/240/277V	M90
MH-150X-Q-KIT	150W	Quad	120/208/240/277V	M102
MH-175A-Q-KIT	175W	Quad	120/208/240/277V	M57
MH-175A-P-KIT		5-Tap	120/208/240/277/480V	M57
MH-250A-480-KIT	250W	Single	480V	M58
MH-250A-Q-KIT		Quad	120/208/240/277V	M58
MH-250A-P-KIT		5-Tap	120/208/240/277/480V	M58
MH-400A-480-KIT	400W	Single	480V	M59
MH-400A-Q-KIT		Quad	120/208/240/277V	M59
MH-400A-P-KIT		5-Tap	120/208/240/277/480V	M59
MH-1000A-480-KIT	1000W	Single	480V	M47
MH-1000A-Q-KIT		Quad	120/208/240/277V	M47
MH-1000A-P-KIT		5-Tap	120/208/240/277/480V	M47
MH-1500A-Q-KIT	1500W	Quad	120/208/240/277V	M48
MH-1500A-P-KIT		5-Tap	120/208/240/277/480V	M48

**Metal Halide F-CAN Ballasts**

CATALOG NUMBER	LAMP WATTAGE	NO. OF TAPS	INPUT VOLTAGE	ANSI CODE
MH-50X-D-FCAN	50W	Dual	120/277V	M110
MH-70X-D-FCAN	70W	Dual	120/277V	M98
MH-100X-D-FCAN	100W	Dual	120/277V	M90
MH-150X-D-FCAN	150W	Dual	120/277V	M102
MH-175A-D-FCAN	175W	Dual	120/277V	M57/H39
MH-250A-D-FCAN	250W	Dual	120/277V	M58/H37
MH-400A-D-FCAN	400W	Dual	120/277V	M59/H33

**Ignitors | F-CAN**

CATALOG NUMBER	LAMP TYPE	WATTAGE	TYPE
IGN-XG-04	Probe Start Metal Halide	50-150W	HX

**Capacitors | F-CAN**

CATALOG NUMBER	LAMP TYPE	WATTAGE	MICROFARAD	VOLTAGE	TYPE
CAP-50MH	Metal Halide	50W	6 $\mu$ F	280V	Dry Film
CAP-70MH	Metal Halide	70W	8 $\mu$ F	280V	Dry Film
CAP-100MH	Metal Halide	100W	12 $\mu$ F	280V	Dry Film
CAP-150MH	Metal Halide	150W	16 $\mu$ F	280V	Dry Film
CAP-175MH	Metal Halide	175W	10 $\mu$ F	400V	Dry Film
CAP-250MH	Metal Halide	250W	15 $\mu$ F	400V	Dry Film
CAP-400MH	Metal Halide	400W	24 $\mu$ F	400V	Dry Film
CAP-1000MH	Metal Halide	1000W	24 $\mu$ F	480V	Oil Filled
CAP-1500MH	Metal Halide	1500W	32 $\mu$ F	525V	Oil Filled

**Pulse Start Metal Halide Ballast Kits**

CATALOG NUMBER	LAMP WATTAGE	NO. OF TAPS	INPUT VOLTAGE	ANSI CODE
MPS-175A-Q-KIT	175W	Quad	120/208/240/277V	M137
MPS-175A-P-KIT		5 Tap	120/208/240/277/480V	M137
MPS-200A-P-KIT	200W	5 Tap	120/208/240/277/480V	M136
MPS-250A-Q-KIT	250W	Quad	120/208/240/277V	M138
MPS-250A-P-KIT		5 Tap	120/208/240/277/480V	M138
MPS-320A-Q-KIT	320W	Quad	120/208/240/277V	M132
MPS-320A-P-KIT		5 Tap	120/208/240/277/480V	M132
MPS-350A-Q-KIT	350W	Quad	120/208/240/277V	M131
MPS-350A-P-KIT		5 Tap	120/208/240/277/480V	M131
MPS-400A-480-KIT	400W	Single	480V	M135
MPS-400A-Q-KIT		Quad	120/208/240/277V	M135
MPS-400A-P-KIT		5 Tap	120/208/240/277/480V	M135
MPS-450A-Q-KIT	450W	Quad	120/208/240/277V	M144
MPS-450A-P-KIT		5 Tap	120/208/240/277/480V	M144
MPS-750A-Q-KIT	750W	Quad	120/208/240/277V	M149
MPS-750A-P-KIT		5 Tap	120/208/240/277/480V	M149
MPS-1000A-Q-KIT	1000W	Quad	120/208/240/277V	M141
MPS-1000A-P-KIT		5 Tap	120/208/240/277/480V	M141

**Ignitors | Pulse Start**

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	175-450W	CWA



# Metal Halide

## Capacitors | Pulse Start

CATALOG NUMBER	LAMP TYPE	WATTAGE	MICROFARAD	VOLTAGE	TYPE
CAP-175MPS	Pulse Start Metal Halide	175W	11µF	400V	Dry Film
CAP-200MPS	Pulse Start Metal Halide	200W	15µF	330V	Dry Film
CAP-250MPS	Pulse Start Metal Halide	250W	17µF	400V	Dry Film
CAP-320MPS	Pulse Start Metal Halide	320W	21µF	345V	Dry Film
CAP-350MPS	Pulse Start Metal Halide	350W	22.5µF	345V	Dry Film
CAP-400MPS	Pulse Start Metal Halide	400W	26µF	330V	Dry Film
CAP-450MPS	Pulse Start Metal Halide	450W	26.5µF	400V	Dry Film
CAP-750MPS	Pulse Start Metal Halide	750W	28µF	400V	Oil Filled
CAP-1000MPS	Pulse Start Metal Halide	1000W	24µF	480V	Oil Filled



Our products are well made, long lasting, and dependable—and we back them with the best warranties in the business.

### [ Quality & Reliability ]



# High Voltage

# High Voltage





## Features & Benefits


- Non-isolated autotransformer
- For use with T5, T8, LED, CFL, or electronic HID ballasts operating at 277V input voltage
- Thermally protected
- UL and cUL 5085 approved
- 5-year limited warranty





## Step Down (480-277V)

CATALOG NUMBER	INPUT VOLTAGE	INPUT CURRENT AT MAX LOAD	INPUT CURRENT AT NO LOAD	OUTPUT VOLTAGE	MAX LOAD	MAX OUTPUT CURRENT	CONSTRUCTION
KTAT-150-480-277-OC	347V	0.45A	0.06A	240V	125VA	0.52A	Open core, flying leads
	480V	0.33A	0.05A	277V	150VA	0.54A	
				240V	125VA	0.52A	
				277V	150VA	0.54A	
Length	2.76"						
Width	2.32"						
Height	1.93"						

CATALOG NUMBER	INPUT VOLTAGE	INPUT CURRENT AT MAX LOAD	INPUT CURRENT AT NO LOAD	OUTPUT VOLTAGE	MAX LOAD	MAX OUTPUT CURRENT	CONSTRUCTION
KTAT-250-480-277 /A	347V	0.57A	0.11A	200V	180VA	0.90A	Fully enclosed, flying leads
	480V	0.57A	0.16A	277V	250VA	0.90A	
Length	9.45"						
Width	1.63"						
Height	1.2"						

CATALOG NUMBER	INPUT VOLTAGE	INPUT CURRENT AT MAX LOAD	INPUT CURRENT AT NO LOAD	OUTPUT VOLTAGE	MAX LOAD	MAX OUTPUT CURRENT	CONSTRUCTION
KTAT-250-480-277 /SF	347V	0.57A	0.11A	200V	180VA	0.90A	Fully enclosed, single flex
	480V	0.57A	0.16A	277V	250VA	0.90A	
Length	11.73"						
Width	1.7"						
Height	1.22"						

CATALOG NUMBER	INPUT VOLTAGE	INPUT CURRENT AT MAX LOAD	INPUT CURRENT AT NO LOAD	OUTPUT VOLTAGE	MAX LOAD	MAX OUTPUT CURRENT	CONSTRUCTION
KTAT-375-480-277 /A	347V	0.86A	0.11A	200V	270VA	1.35A	Fully enclosed, flying leads
	480V	0.86A	0.21A	277V	375VA	1.35A	
Length	11.73"						
Width	1.7"						
Height	1.22"						

CATALOG NUMBER	INPUT VOLTAGE	INPUT CURRENT AT MAX LOAD	INPUT CURRENT AT NO LOAD	OUTPUT VOLTAGE	MAX LOAD	MAX OUTPUT CURRENT	CONSTRUCTION
KTAT-375-480-277 /SF	347V	0.86A	0.11A	200V	270VA	1.35A	Fully enclosed, single flex
	480V	0.86A	0.21A	277V	375VA	1.35A	
Length	12.5"						
Width	2.3"						
Height	1.27"						

# Low Voltage



## Features & Benefits

- Minimum starting temperature: -18°C / 0°F
- Maximum case temperature: 75°C / 167°F
- Transient protection meets ANSI/IEEE C62.41 Cat. A
- Short circuit protection
- Class 2 LED Driver
- 3-year limited warranty
- RU and cRU (pending)
- For use with halogen and MR16LED lamps
- No minimum load



# Low Voltage

## Low Voltage

CATALOG NUMBER	MAX. INPUT POWER	INPUT VOLTAGE	INPUT CURRENT	OUTPUT VOLTAGE	DIMMABLE	REMARKS
KTET-60-1-WC-F	60W	120V	0.50A	11V	No	With cord and fuse, not short circuit protected
KTET-60-1-SCP-DIM-AL	60W	120V	0.50A	12V	Yes	Class 2, aluminum case, short circuit protected
KTET-75-1-SCP-EMI	75W	120V	0.63A	11V	No	EMI filter, meets FCC Part 18 (Class B) consumer limits, short circuit protected
KTET-75-1-SCP-DIM-RJS	75W	120V	0.62A	11V	Yes	Rear mount studs and leads for J-box application, short circuit protected
KTET-75-1-SCP-DIM-HV-AL	75W	120V	0.59A	12V	Yes	Aluminum case, side leads, short circuit protected
KTET-75-2-SCP-RJS	75W	277V	0.26A	11V	No	Rear mount studs and leads for J-box application, short circuit protected
KTET-150-1-SCP-DIM	150W	120V	1.27A	11.4V	Yes	Aluminum case, short circuit protected

# Low Voltage - LED Specific



## Features & Benefits

- Minimum starting temperature: -18°C / 0°F
- Maximum case temperature: 75°C / 167°F
- Transient protection meets ANSI/IEEE C62.41 Cat. A
- Short circuit protection
- Class 2 LED Driver
- Leading / trailing edge dimmable
- 3-year limited warranty
- RU and cRU
- For use with LED lamps only
- No minimum load



# Low Voltage - LED Specific

## LED Specific

CATALOG NUMBER	INPUT VOLTAGE	KEYSTONE MR16 LED LAMP WATTAGE	DIMMABLE	NO. OF LAMPS	INPUT WATTS	INPUT CURRENT	POWER FACTOR	OUTPUT VOLTAGE
KTET-20-277-LED	277V	7.5W	No	1	7.6W	0.03A	0.96	12Vac
				2	14.4W	0.05A	0.96	12Vac
				3	21W	0.08A	0.95	12Vac
		7W		1	7.5W	0.03A	0.96	12Vac
				2	14.1W	0.05A	0.96	12Vac
				3	20.5W	0.08A	0.95	12Vac
KTET-20-1-LED-FDIM	120V	7.5W	TRIAC or ELV	1	7.1W	0.06A	0.95	12Vac
				2	14.1W	0.13A	0.94	12Vac
				3	21W	0.19A	0.93	12Vac
		7W		1	6.9W	0.06A	0.95	12Vac
				2	13.6W	0.12A	0.94	12Vac
				3	20.5W	0.18A	0.93	12Vac



# LED MODULES & LIGHT ENGINES

LED MODULES &  
LIGHT ENGINES



## LED Modules

Linear



**Linear Standard**  
P 80-82

**Aluminum Extrusion**  
P 84

Circular



**Circular**  
P 86

Square &  
Rectangular



**Square & Rectangular**  
P 88

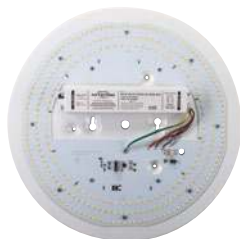
## LED Light Engines

Circular Driver  
on Board



**Circular Driver on Board**  
P 90

Circular



**Circular**  
P 92

Linear

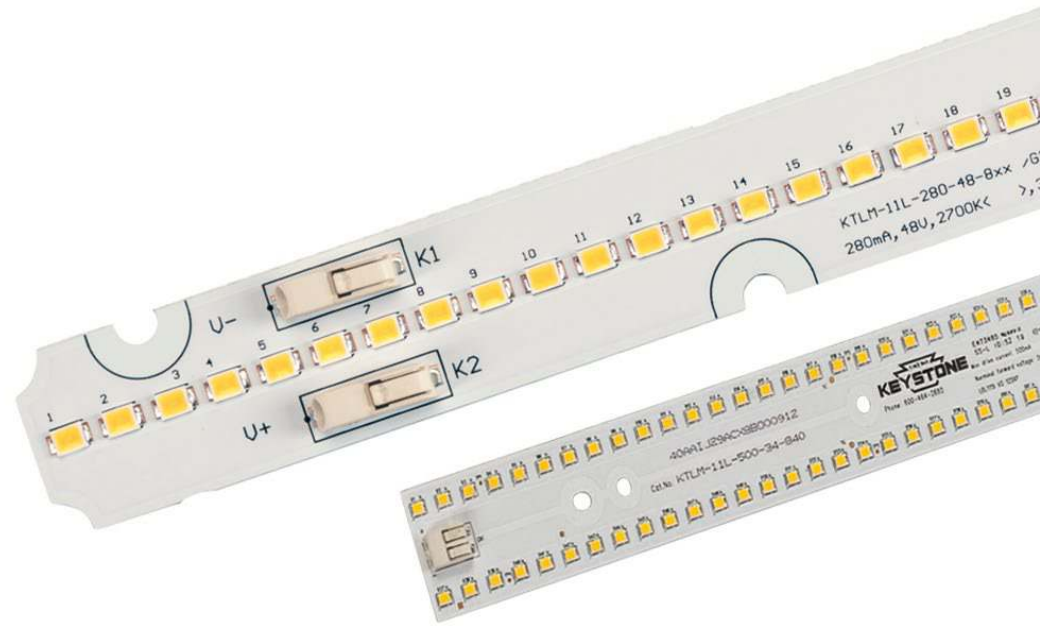


**Linear**  
P 94

Rectangular



**Rectangular**  
P 96



### Features & Benefits

- Low-profile modules available in a variety of sizes and lighting density packages for use in linear lighting applications
- Highly reflective white solder mask on aluminum substrate
- For use in Class 2 lighting systems
- 3-step color binning standard
- Constructed of UL recognized components
- WAGO brand push connectors on all modules
- 90 CRI modules available as special order
- Available in Standard Pack and Bulk Pack cartons



### Single Row

CATALOG NUMBER	NOMINAL LENGTH	NOMINAL WIDTH	LUMENS	MAX INPUT CURRENT	FORWARD VOLTAGE	WATTAGE	EFFICACY	NO. OF LEDS	CRI	AVAILABLE CCT
KTLM-5.5L-140-24-8xx /G2	5.5"	.79"	560	140mA	24Vdc	3.3W	170 lm/W	16	>80	30,35,40,50K
Length	5.5"									
Width	.79"									

CATALOG NUMBER	NOMINAL LENGTH	NOMINAL WIDTH	LUMENS	MAX INPUT CURRENT	FORWARD VOLTAGE	WATTAGE	EFFICACY	NO. OF LEDS	CRI	AVAILABLE CCT
KTLM-11L-280-24-8xx /G2	11"	.79"	1120	280mA	24Vdc	6.7W	167 lm/W	32	>80	30,35,40,50K
KTLM-11L-280-48-8xx /G2			2310		48Vdc	13.4W	172 lm/W	48	>80	
Length	11.02"									
Width	.79"									

CATALOG NUMBER	NOMINAL LENGTH	NOMINAL WIDTH	LUMENS	MAX INPUT CURRENT	FORWARD VOLTAGE	WATTAGE	EFFICACY	NO. OF LEDS	CRI	AVAILABLE CCT
KTLM-22L-560-24-8xx /G2	22"	.79"	2300	560mA	24Vdc	13.4W	171 lm/W	64	>80	30,35,40,50K
KTLM-22L-560-48-8xx /G2			4540		48Vdc	26.8W	169 lm/W	96		
Length	22.02"									
Width	0.79"									

### Dual Row

CATALOG NUMBER	NOMINAL LENGTH	NOMINAL WIDTH	LUMENS	MAX INPUT CURRENT	FORWARD VOLTAGE	WATTAGE	EFFICACY	NO. OF LEDS	CRI	AVAILABLE CCT
KTLM-11L-500-34-8xx	11"	1.22"	3000	500mA	34Vdc	17W	176 lm/W	72	>80	30,35,40,50K
Length	10.75"									
Width	1.22"									

Chart continues on next page

# Standard


Chart continued from previous page

## Dual Row

CATALOG NUMBER	NOMINAL LENGTH	NOMINAL WIDTH	LUMENS	MAX INPUT CURRENT	FORWARD VOLTAGE	WATTAGE	EFFICACY	NO. OF LEDS	CRI	AVAILABLE CCT
KTLM-22L-1000-34-8xx	22"	1.22"	6000	1000mA	34Vdc	34W	176 lm/W	144	>80	30,35,40,50K

Length	21.5"	
Width	1.22"	

CATALOG NUMBER	NOMINAL LENGTH	NOMINAL WIDTH	LUMENS	MAX INPUT CURRENT	FORWARD VOLTAGE	WATTAGE	EFFICACY	NO. OF LEDS	CRI	AVAILABLE CCT
KTLM-44L-2000-34-8xx	44"	1.22"	12000	12000	34Vdc	68W	176 lm/W	288	>80	30,35,40,50K

Length	43.10"	
Width	1.22"	



At Keystone, the customer always comes first.

We're determined to go above and beyond for you.

**[ Your Trusted Partner ]**

# Aluminum Extrusion



## Features & Benefits

- High-efficacy linear LED modules pre-mounted into aluminum extrusion via a patented manufacturing method
- For use in Class 2 lighting systems only
- High lumen density design; approximately 1,500 lumens/foot
- Completely heat sunked, no additional heat sinking needed to extend lifetime
- Low profile, push-in connectors
- Made with UL Recognized components
- Reported L70 > 54,000 hours at < 85°C/185°F
- Linkable in parallel with different length AlumaGroove modules
- Optional snap-on diffused lenses available

RoHS Compliant 5 YEAR WARRANTY

# Aluminum Extrusion

## ALUMAGROOVE

### 80 CRI Modules

CATALOG NUMBER	NOMINAL LENGTH	AVAILABLE CCT	NO. OF LEDS	NOMINAL LUMENS*	MAX. DRIVE CURRENT	NOMINAL FORWARD VOLTAGE	MAX MOD POWER*	NOMINAL EFFICACY*
KTAG-11L-350-28-8xx-RJ /G2	11"	3000K	40	1595	350mA	28Vdc	9.8W	159 lm/W
		3500K		1667				166 lm/W
		4000K		1696				171 lm/W
		5000K		1697				169 lm/W
KTAG-22L-700-28-8xx-RJ /G2	22"	3000K	80	3179	700mA	28Vdc	20W	156 lm/W
		3500K		3285				162 lm/W
		4000K		3362				168 lm/W
		5000K		3357				165 lm/W
KTAG-44L-1400-28-840-RJ /G2	44"	3000K	160	6204	1400mA	28Vdc	42W	149 lm/W
		3500K		6400				155 lm/W
		4000K		6577				161 lm/W
		5000K		6593				159 lm/W

## ALUMAGROOVE

### 90 CRI Modules SPECIAL ORDER ONLY

CATALOG NUMBER	NOMINAL LENGTH	AVAILABLE CCT	NO. OF LEDS	NOMINAL LUMENS*	MAX. DRIVE CURRENT	NOMINAL FORWARD VOLTAGE	MAX MOD POWER*	NOMINAL EFFICACY*
KTAG-11L-350-28-8xx-RJ /G2	11"	3000K	40	1595	350mA	46Vdc	64.4W	170 lm/W
		3500K		1667				179 lm/W
		4000K		1696				183 lm/W
		5000K		1697				181 lm/W
KTAG-22L-700-28-8xx-RJ /G2	22"	3000K	80	3179	700mA	46Vdc	32.2W	168 lm/W
		3500K		3285				175 lm/W
		4000K		3362				180 lm/W
		5000K		3357				178 lm/W
KTAG-44L-1400-28-840-RJ /G2	44"	3000K	160	6204	1400mA	46Vdc	64.4W	162 lm/W
		3500K		6400				170 lm/W
		4000K		6577				174 lm/W
		5000K		6593				173 lm/W

## ALUMAGROOVE

### High Output Modules

CATALOG NUMBER	NOMINAL LENGTH	AVAILABLE CCT	NO. OF LEDS	NOMINAL LUMENS*	MAX. DRIVE CURRENT	NOMINAL FORWARD VOLTAGE	MAX MOD POWER*	NOMINAL EFFICACY*
KTAG-11L-350-46-8xx-RJ /G2	11"	3000K	64	2634	350mA	46Vdc	64.4W	170 lm/W
		3500K		2785				179 lm/W
		4000K		2828				183 lm/W
		5000K		2816				181 lm/W
KTAG-22L-700-46-8xx-RJ /G2	22"	3000K	128	5240	700mA	46Vdc	32.2W	168 lm/W
		3500K		5471				175 lm/W
		4000K		5605				180 lm/W
		5000K		5582				178 lm/W
KTAG-44L-1400-46-840-RJ /G2	44"	3000K	252	10244	1400mA	46Vdc	64.4W	162 lm/W
		3500K		10788				170 lm/W
		4000K		11007				174 lm/W
		5000K		11004				173 lm/W

### Optional Accessories

CATALOG NUMBER	DESCRIPTION
KTAG-11L-LENS	Diffused lens for 11" AlumaGroove modules
KTAG-22L-LENS	Diffused lens for 22" AlumaGroove modules
KTAG-33L-LENS	Diffused lens for 33" AlumaGroove modules
KTAG-44L-LENS	Diffused lens for 44" AlumaGroove modules







**Features & Benefits**

- For use in Class 2 lighting systems
- Highly reflective white soldermask
- UL Recognized components
- Thermally conductive metal core PCB
- 4-step MacAdam color binning
- LM80 tested LEDs
- Beam angle: 120°
- Reported life expectancy: L70 > 36,000 hours at Tc < 85°C

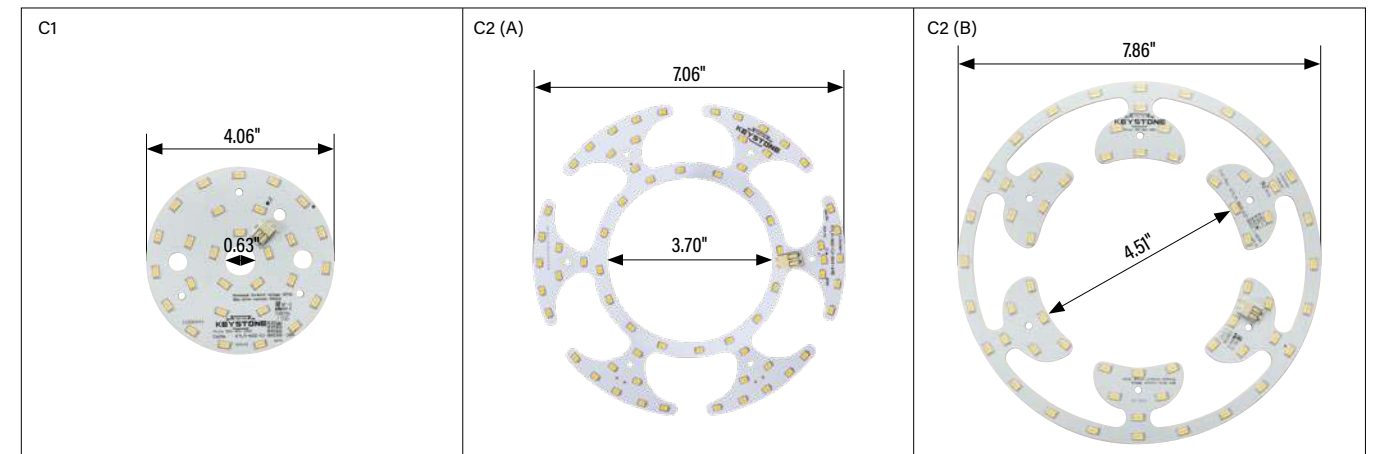
RoHS Compliant **5 YEAR WARRANTY**

**Circular Series LED Modules**

CATALOG NUMBER	NOMINAL DIAMETER	AVAILABLE CCT	SPECIAL ORDER CCT	CRI	NO. OF LEDS	NOMINAL LUMENS*	MAX. DRIVE CURRENT	FORWARD VOLTAGE	MAX MOD POWER*	NOMINAL EFFICACY*	DIMENSIONS
KTLM-600-C1-8xx-35B	4"	4000K	2700K	>80	35	1630	600mA	205Vdc	12.3W	133 lm/W	C1
			3000K								
			5000K								

**Future Fit Series LED Modules** Optimized for Keystone LED Kits

CATALOG NUMBER	NOMINAL DIAMETER	AVAILABLE CCT	SPECIAL ORDER CCT	CRI	NO. OF LEDS	NOMINAL LUMENS*	MAX. DRIVE CURRENT	FORWARD VOLTAGE	MAX MOD POWER*	NOMINAL EFFICACY*	DIMENSIONS
KTLM-960-C2-8xx-64B	7"	4000K	2700K	>80	64	2980	960mA	23.8Vdc	22.9W	130 lm/W	C2 (A)
		5000K	3000K								
KTLM-960-C2-8xx-80B	8"	3000K	2700K	>80	80	3720	960mA	29.6Vdc	28.4W	131 lm/W	C2 (B)
		4000K									
		5000K									



# Square & Rectangular

# Square & Rectangular



## Features & Benefits

- For use in Class 2 lighting systems
- Highly reflective white soldermask
- UL Recognized components
- Thermally conductive metal core PCB
- 4-step MacAdam color binning
- LM80 tested LEDs
- Beam angle: 120°
- Reported life expectancy: L70 > 36,000 hours at Tc < 85°C

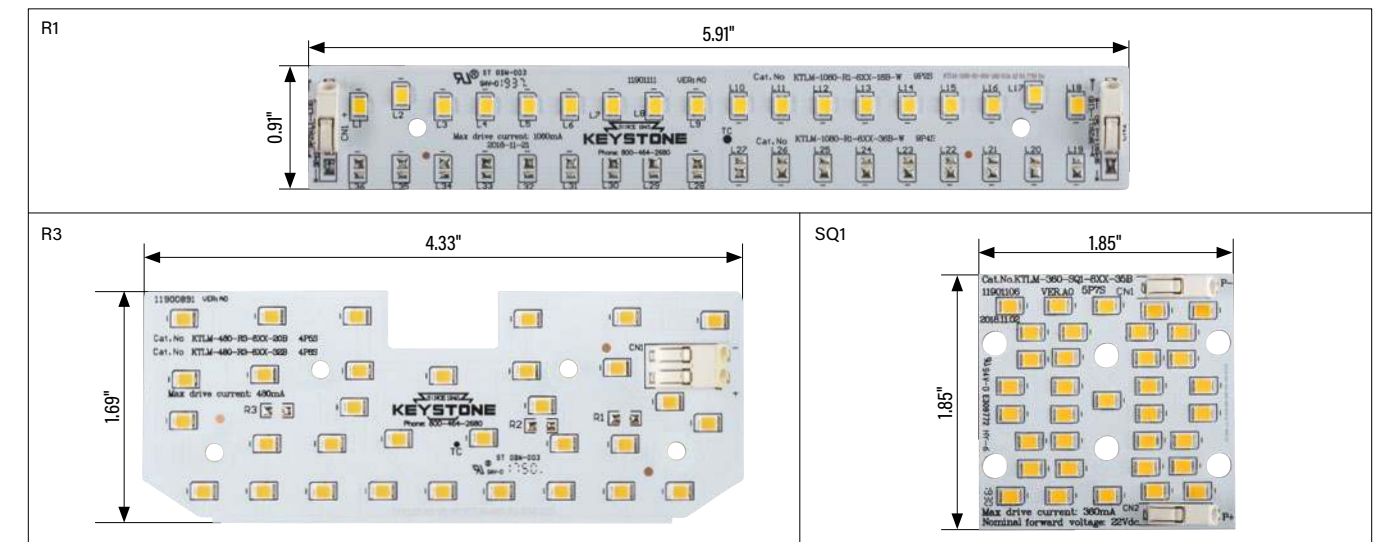


## Square Series LED Modules

CATALOG NUMBER	AVAILABLE CCT	SPECIAL ORDER CCT	NO. OF LEDs	NOMINAL LUMENS*	MAX. DRIVE CURRENT	FORWARD VOLTAGE	MAX MOD POWER*	NOMINAL EFFICACY*	DIMENSIONS
KTLM-360-SQ1-8xx-35B	3000K	2700K	35	1050	360mA	19.8Vdc	71W	148 lm/W	SQ1
	4000K	5000K							

## Future Fit Series LED Modules OPTIMIZED FOR KEYSTONE LED KITS

CATALOG NUMBER	AVAILABLE CCT	SPECIAL ORDER CCT	NO. OF LEDs	NOMINAL LUMENS*	MAX. DRIVE CURRENT	FORWARD VOLTAGE	MAX MOD POWER*	NOMINAL EFFICACY*	DIMENSIONS
KTLM-480-R3-8xx-20B	N/A	2700K	20	940	480mA	14.9Vdc	71W	132 lm/W	R3
		3000K							
		4000K							
		5000K							
KTLM-480-R3-8xx-32B	N/A	2700K	32	1500	480mA	23.8Vdc	11.4W	132 lm/W	R3
		3000K							
		4000K							
		5000K							
KTLM-1080-R1-8xx-18B	5000K	2700K	18	840	1080mA	6.4Vdc	6.9W	122 lm/W	R1
		3000K							
		4000K							
KTLM-1080-R1-8xx-36B	4000K	2700K	36	1680	1080mA	12.8Vdc	13.8W	122 lm/W	R1
		5000K							



# Circular Driver on Board



## Features & Benefits

- AC LED light engines using driver-on-board technology offer a reliable and easy-to-install alternative to traditional devices
- Energy Star-rated and CEC JA8 T24-compliant on select models
- Suitable for use in fully enclosed fixtures
- Suitable with a wide variety of phase control dimmers while retaining low flicker performance
- Flat compact design with included 5VA cover allows for compatibility with a wide range of fixture applications
- Mounting accessories included



RoHS Compliant

50,000 HOUR LIFETIME

5 YEAR WARRANTY

# Circular Driver on Board

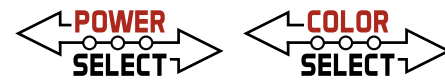
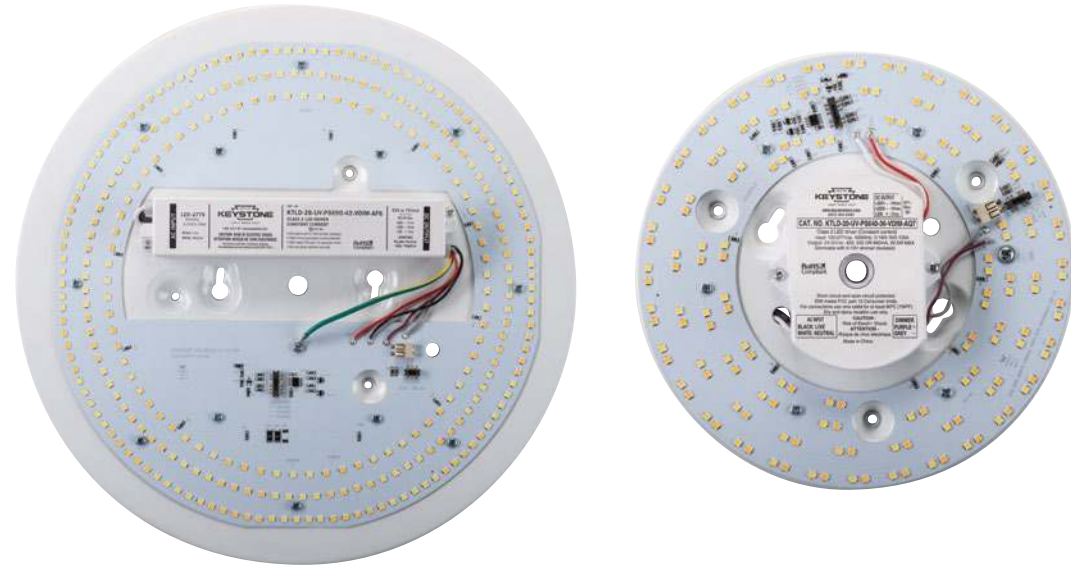
## Circular AC Driver on Board

**FUTURE FIT** >

CATALOG NUMBER	NOMINAL SIZE	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	DIMMABLE	ADDITIONAL APPROVALS			AVAILABLE CCTS
							JA8 T24	ENERGY STAR	CRI	
KT-RKIT8AC-3C-8xx-FDIM	3" Round	8W	790	98 lm/W	120V	Phase Control	N/A	Yes	>80	2700K, 4000K, or 5000K
KT-RKIT10AC-3C-9xx-FDIM	3" Round	10W	820	82 lm/W	120V	Phase Control	Yes*	Yes	>90	2700K, 3000K, 4000K, or 5000K
KT-RKIT12AC-4C-8xx-FDIM	4" Round	12W	1150	96 lm/W	120V	Phase Control	N/A	Yes	>80	2700K, 4000K, or 5000K
KT-RKIT17AC-4C-9xx-FDIM	4" Round	17W	1245	74 lm/W	120V	Phase Control	Yes*	Yes	>90	2700K, 3000K, 4000K, or 5000K
KT-RKIT16AC-5C-8xx-FDIM	5.5" Round	16W	1700	106 lm/W	120V	Phase Control	N/A	Yes	>80	2700K, 4000K, or 5000K
KT-RKIT19AC-7C-8xx-FDIM	7" Round	19W	2100	110 lm/W	120V	Phase Control	N/A	Yes	>80	2700K, 4000K, or 5000K
KT-RKIT25AC-7C-8xx-FDIM	7" Round	25W	2520	101 lm/W	120V	Phase Control	N/A	Yes	>80	2700K, 4000K, or 5000K
KT-RKIT28AC-7C-9xx-FDIM	7" Round	28W	2280	83 lm/W	120V	Phase Control	Yes*	Yes	>90	2700K, 3000K, 4000K, or 5000K

\*2700K, 3000K, and 4000K only

# Circular



## Features & Benefits

- Compact, preassembled LED light engines offer great versatility
- Keystone Power Select and Color Select technology available
- Qualified on Energy Star CSD, listed on select models
- Various form factors to fit many different fixture types
- Select units powered by Keystone 0-10V or phase dimming driver
- Over 50% energy savings compared to traditional fluorescent bulbs



RoHS Compliant

50,000 HOUR LIFETIME

10 YEAR WARRANTY

# Circular

## Power and Color Select Circular

**FUTURE FIT**

CATALOG NUMBER	NOMINAL SIZE	SELECTABLE WATTAGE	SELECTABLE CCT	LUMENS	EFFICACY	INPUT VOLTAGE	DIMMABLE	ENERGY STAR	CRI
KT-RKIT20PS-8CP-8CSC-VDIM	8" Circular	13.5W	3000K	2100	156 lm/W	120-277V	0-10V	Yes	>80
			3500K	2125	157 lm/W				
			4000K	2150	159 lm/W				
			5000K	2200	163 lm/W				
		16.5W	3000K	2650	161 lm/W				
			3500K	2675	162 lm/W				
			4000K	2700	164 lm/W				
			5000K	2750	167 lm/W				
		20.5W	3000K	3100	151 lm/W				
			3500K	3125	152 lm/W				
			4000K	3150	154 lm/W				
			5000K	3200	156 lm/W				
KT-RKIT28PS-13CP-8CSC-VDIM	13" Circular	21W	3000K	3100	148 lm/W	120-277V	0-10V	Yes	>80
			3500K	3125	149 lm/W				
			4000K	3150	150 lm/W				
			5000K	3200	152 lm/W				
		28.5W	3000K	4100	144 lm/W				
			3500K	4125	145 lm/W				
			4000K	4150	146 lm/W				
			5000K	4200	147 lm/W				

## Dedicated

**FUTURE FIT**

CATALOG NUMBER	NOMINAL SIZE	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	DIMMABLE	ENERGY STAR	CRI	AVAILABLE CCTS
KT-RKIT-CP-8-1600-8xx-FDIM /G2	8" Circular	15.6W	1800	115 lm/W	120V	Phase	Yes*	>80	3000K, 3500K, 4000K, or 5000K
KT-RKIT-CP-8-2200-8xx-FDIM /G2	8" Circular	19.3W	2240	116 lm/W	120V	Phase	Yes*	>80	3000K, 3500K, 4000K, or 5000K

\*Only on Energy Star's Certified Subcomponent Database

## TYPICAL INSTALLATION APPLICATION





# Linear



## Features & Benefits

- Designed to retrofit a wide variety of linear fixtures including troffers, vapor lights, wraps, strips, and wall sconces
- Keystone Power Select technology
- High-performance, high-versatility linear LED light engines
- Includes (2) Alumagroove LED modules, (2) module lenses, (1) Power Select driver, and appropriate mounting hardware
- Modules are completely heat sinked
- Low-profile WAGO push connectors located on bottom of modules to eliminate dark spots on end-to-end connections
- Over 50% energy savings compared to traditional fluorescent bulbs



RoHS Compliant

50,000 HOUR LIFETIME

10 YEAR WARRANTY

# Linear

**FUTURE FIT**

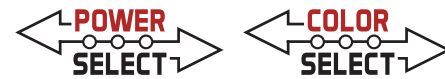
## Power Select

CATALOG NUMBER	NOMINAL SIZE	SELECTABLE WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	DIMMABLE	DLC	CRI	AVAILABLE CCTS
KT-RKIT20PS-2AG11-8xx-VDIM	1'	19.8W	2840	143 lm/W	120-277V	0-10V	N/A	>80	3500K, 4000K, or 5000K
		16.3W	2410	148 lm/W					
		10.6W	1640	155 lm/W					
KT-RKIT31PS-2AG22-8xx-VDIM	2'	31.5W	5115	162 lm/W	120-277V	0-10V	Yes	>80	3500K, 4000K, or 5000K
		24.4W	3990	164 lm/W					
		17.6W	3000	170 lm/W					
KT-RKIT35PS-2AG44-8xx-VDIM	4'	35.3W	6040	171 lm/W	120-277V	0-10V	Yes	>80	3500K, 4000K, or 5000K
		29.1W	5090	175 lm/W					
		22.7W	4050	178 lm/W					

## TYPICAL INSTALLATION APPLICATION



# Rectangular



## Features & Benefits

- Compact, preassembled LED light engines offer great versatility
- Keystone Power Select and Color Select technology
- Energy Star listed
- Various form factors to fit many different fixture types
- Select units powered by Keystone 0-10V dimming driver
- Over 50% energy savings compared to traditional fluorescent fixtures



RoHS Compliant

50,000 HOUR LIFETIME

10 YEAR WARRANTY

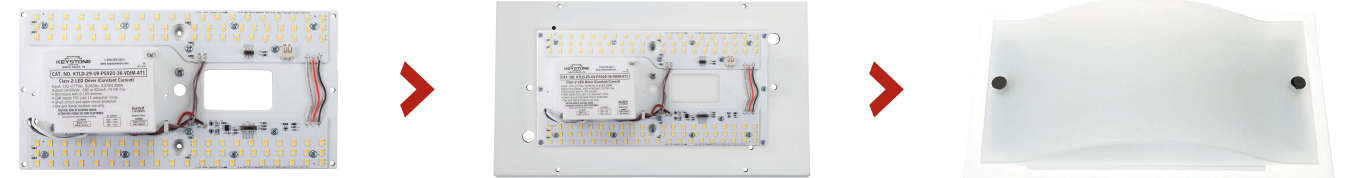
# Rectangular

**FUTURE FIT** ➔

## Power and Color Select

CATALOG NUMBER	NOMINAL SIZE	SELECTABLE WATTAGE	SELECTABLE CCT	LUMENS	EFFICACY	INPUT VOLTAGE	DIMMABLE	ENERGY STAR	CRI
KT-RKIT12PS-6RP-8CSC	6" Rectangular	8W	3000K	1050	131 lm/W	120-277V	N/A	Yes	>80
			3500K	1075	134 lm/W				
			4000K	1110	139 lm/W				
		12W	5000K	1150	144 lm/W				
			3000K	1550	129 lm/W				
			3500K	1575	131 lm/W				
KT-RKIT30PS-11RP-8CSC-VDIM	11" Rectangular	22W	3000K	3100	141 lm/W	120-277V	0-10V	Yes	>80
			3500K	3125	142 lm/W				
			4000K	3150	143 lm/W				
		29.5W	5000K	3200	145 lm/W				
			3000K	4100	139 lm/W				
			3500K	4125	140 lm/W				
			4000K	4150	141 lm/W				
			5000K	4200	142 lm/W				

## TYPICAL INSTALLATION APPLICATION





# CONTROLS

CONTROLS





## Wireless Bluetooth System



**Controller & Sensor**  
P 102



**DMX Controller**  
P 104



**Dimmer Switch / Keypad**  
P 106

## Wired



**Sensor**  
P 108

## Plug-and-Play



**Sensor**  
P 110

# Controller & Sensor



## Features & Benefits

- A relay, 0–10V dimming, and a 1/2" knockout enable compatibility with many standard industry fixtures
- Integrated daylight and PIR motion sensor
- Utilizes Bluetooth mesh technology for reliable and secure wireless communication
- Intelligent relay control software reduces wear to extend relay life
- Power outage recovery defaults to automatic ON state
- Indicator LED communicates device status
- Controlled via SmartLoop mobile app, keypad, and sensors
- Commissioned via SmartLoop mobile app for iPhone and Android



# Controller & Sensor

## Controller - KO Mount



CATALOG NUMBER	INPUT POWER	STANDBY POWER	MAX LOAD CURRENT	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	MAX SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE	WIRELESS PROTOCOL
KTSL-FC1-UV-KO	120-277VAC, 50-60Hz	<1W	3.0A	2.4GHz	100ft	N/A	N/A	N/A	Bluetooth 4.2



## Controller with Remote Sensor - KO Mount



CATALOG NUMBER	INPUT POWER	STANDBY POWER	MAX LOAD CURRENT	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	MAX SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE	WIRELESS PROTOCOL
KTSL-FC1-UV-KO-PIR	120-277VAC, 50-60Hz	<1W	3.0A	2.4GHz	100ft	40' max	120°	100-1000 lux	Bluetooth 4.2



## Sensor - KO Mount



CATALOG NUMBER	INPUT POWER	STANDBY POWER	MAX LOAD CURRENT	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	MAX SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE	WIRELESS PROTOCOL
KTSL-HBFC1-UV-KO-PIR	120-277VAC, 50-60Hz	<1W	5.0A	2.4GHz	100ft	40' max	120°	30-2500 lux	Bluetooth 4.2



## Sensor - Fixture Embedded



CATALOG NUMBER	INPUT POWER	STANDBY POWER	MAX LOAD CURRENT	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	MAX SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE	WIRELESS PROTOCOL
KTSL-FC2-12V-SM-PIR	10-15VDC	0.2W	Driver Dependant	2.4GHz	100ft	16' max	120°	100-1000 lux	Bluetooth 4.2



## Sensor - Fixture Screw-In



CATALOG NUMBER	INPUT POWER	STANDBY POWER	MAX LOAD CURRENT	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	MAX SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE	WIRELESS PROTOCOL
KTSL-FC3-12V-PKO-PIR	10-15VDC	0.2W	Driver Dependant	2.4GHz	100ft	40' max	120°	0-2000 lux	Bluetooth 4.2



## Controller - Fixture Screw-In



CATALOG NUMBER	INPUT POWER	STANDBY POWER	MAX LOAD CURRENT	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	MAX SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE	WIRELESS PROTOCOL
KTSL-FC4-12V-PKO	10-15Vdc	0.2W	Driver Dependant	2.4GHz	100ft	N/A	N/A	N/A	Bluetooth 4.2







**Features & Benefits**

- Optimized for use with Keystone DMX-controllable RGBW fixture solutions; may be used on other manufactured fixtures if compatible
- Controlled via Keystone SmartLoop platform; DMX512 output through proprietary waterproof connector
- Can control multiple fixtures up to rated max fixture loading of 6 Amps
- Programmable scenes and sequences
- Slim housing designed for easy outdoor mounting
- Suitable for indoor or outdoor use
- Compatible with any lighting device using DMX512 communication protocol with 4-channel design (connector adapter may be required)
- Commissioned via SmartLoop mobile app for iPhone and Android; controlled via SmartLoop mobile app, keyboard, and sensors
- Utilizes Bluetooth mesh technology for reliable and secure wireless communication



**Controller - Plug-and-Play**



CATALOG NUMBER	INPUT POWER	STANDBY POWER	MAX LOAD CURRENT	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	MAX SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE	WIRELESS PROTOCOL
KTSL-DMXC1-1-WC	120VAC, 50-60Hz	0.5W	6.0A	2.4GHz	100ft	N/A	N/A	N/A	Bluetooth 4.2



**Controller - Wired**



CATALOG NUMBER	INPUT POWER	STANDBY POWER	MAX LOAD CURRENT	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	MAX SENSOR DETECTION HEIGHT	SENSOR DETECTION ANGLE	DAYLIGHT HARVESTING RANGE	WIRELESS PROTOCOL
KTSL-DMXC1-UV-WC	120-277VAC, 50-60Hz	0.5W	6.0A	2.4GHz	100ft	N/A	N/A	N/A	Bluetooth 4.2



# Dimmer Switch / Keypad



## Features & Benefits

- 5 buttons allow for dimming, toggling power, automatic sensor/preset level operation, and scene activation
- Utilizes Bluetooth mesh technology for reliable and secure wireless communication
- Indicator LED communicates device status
- Easily commissioned to control groups or individual luminaries
- Designed for installation in standard wallboxes
- Operates on 2x CR2032 coin cell batteries
- Commissioned via SmartLoop mobile app for iPhone and Android



# Dimmer Switch / Keypad



## Dimmer Switches / Keypads

CATALOG NUMBER	INPUT POWER	BATTERY LIFETIME	RF TRANSMIT POWER	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	WIRELESS PROTOCOL
KTSL-WS1-B-SG /G2	2x CR2032 coin cell batteries	10 Years	8dBm	2.4GHz	100ft	Bluetooth 4.2



## Accessories

CATALOG NUMBER	INPUT POWER	BATTERY LIFETIME	RF TRANSMIT POWER	WIRELESS FREQUENCY	WIRELESS RANGE (OPEN AIR)	WIRELESS PROTOCOL
KTSL-TK1-USB	5V USB, internal CR1220 battery backup for retaining time	10 Years	8dBm	2.4GHz	100ft	Bluetooth 4.2

A module that plugs into any powered USB port to maintain and restore SmartLoop schedules to devices in case of a power outage

# Sensor

# Sensor



## Features & Benefits

- Various form factors designed for a wide range of applications
- Microwave and PIR technologies available on select models
- Sensors that are powered by 12Vdc include low-voltage transformer
- IP65 rating on select models
- Various adjustable settings including adjustable time delay and standby periods, standby dim level, and photocell sensitivity




## PIR Sensors

CATALOG NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	DETECTION ANGLE	MOUNTING HEIGHT	MAX LOAD	ADJUSTABLE SETTINGS			
						DAYLIGHT THRESHOLD	HOLD TIME	STANDBY TIME	STANDBY DIMMING LEVEL
KTS-PIR2-UV-K0	120/277/347Vac	0-10V	360°	20-40ft	800VA @ 120V 1200VA @ 277V 1500VA @ 347V	1 Lux to ∞	30 sec to 30 min	30 sec to 30 min	10% 30% 50% 60%

## Microwave Sensors

CATALOG NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	DETECTION ANGLE	MOUNTING HEIGHT	ADJUSTABLE SETTINGS					
					BRIGHTNESS	SENSITIVITY	DAYLIGHT THRESHOLD	HOLD TIME	STANDBY TIME	STANDBY DIMMING LEVEL
KTS-MW3-UV-K0-K1	12Vdc	0-10V	360°	<49ft	70%	20%	10 Lux	10 sec	1 min	10%
					80%	50%	30 Lux	1 min	30 min	20%
					90%	75%	50 Lux	10 min	60 min	30%
					100%	100%	100 Lux	30 min	∞	50%
KTS-MW3-UV-K0-K2	12Vdc	0-10V	360°	<49ft	70%	20%	10 Lux	10 sec	1 min	10%
					80%	50%	30 Lux	1 min	30 min	20%
					90%	75%	50 Lux	10 min	60 min	30%
					100%	100%	100 Lux	30 min	∞	50%

## Accessories

CATALOG NUMBER	DESCRIPTION	ADJUSTABLE SETTINGS					
		BRIGHTNESS	SENSITIVITY	HOLD TIME	DAYLIGHT THRESHOLD	STANDBY TIME	STANDBY DIMMING LEVEL
KTS-MW3-REMOTECONTROL	Remote control for KTS-xx3-12V sensors, used to set or adjust all sensor performance parameters	70% 80% 90% 100%	20% 50% 75% 100%	10 sec 1 min 10 min 30 min	10 Lux 30 Lux 50 Lux 100 Lux Disable	1 min 30 min 60 min ∞	10% 20% 30% 50%
Remote control for KTS-xx3-12V sensors, used to set or adjust all sensor performance parameters							

# Sensor



## Features & Benefits

- Compact and versatile for enhanced controllability of lighting system
- Screw-in connections, no need to run additional dimming wires
- Partial discharge (PD) dual technology differentiates artificial light brightness from natural light and automatically turns off light when ambient brightness exceeds preset lux level
- Various adjustable settings include brightness, sensitivity, hold time, daylight, standby time, and standby dim level
- Microwave and PIR technologies available on select models
- Compatible with Keystone fixtures with SmartPort technology



# Sensor

## Microwave Sensors

CATALOG NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	STANDBY POWER	MOUNTING HEIGHT	MAX DETECTION ANGLE	PRESET SETTINGS*					
						BRIGHTNESS	SENSITIVITY	HOLD TIME	DAYLIGHT THRESHOLD	STANDBY TIME	STANDBY DIMMING LEVEL
KTS-MW3-12V-PKO	12V	0-10V	<0.5W	<49ft	150°	100%	75%	10min	Disabled	∞	50%
KTS-MW3-12V-PKO /A	12V	0-10V	<0.5W	<49ft	150°	100%	75%	1min	Disabled	3min	30%
KTS-MW3-12V-PKO /B	12V	0-10V	<0.5W	<49ft	150°	100%	75%	5min	Disabled	10min	10%

\*Sensor comes preset with these settings. All settings are adjustable using the KTS-MW3-REMOTECONTROL found in chart below.

## PIR Sensors

CATALOG NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	STANDBY POWER	MOUNTING HEIGHT	MAX DETECTION ANGLE	PRESET SETTINGS*					
						BRIGHTNESS	SENSITIVITY	HOLD TIME	DAYLIGHT THRESHOLD	STANDBY TIME	STANDBY DIMMING LEVEL
KTS-PIR3-12V-PKO /G2	12V	0-10V	<0.5W	<40ft	60°	100%	50%	10min	Disabled	∞	50%

## Accessories

CATALOG NUMBER	ADJUSTABLE SETTINGS					
	BRIGHTNESS	SENSITIVITY	HOLD TIME	DAYLIGHT THRESHOLD	STANDBY TIME	STANDBY DIMMING LEVEL
KTS-MW3-REMOTECONTROL	70% 80% 90% 100%	20% 50% 75% 100%	10 sec 1 min 10 min 30 min	10 Lux 30 Lux 50 Lux 100 Lux Disable	1 min 30 min 60 min ∞	10% 20% 30% 50%
Remote control for KTS-xx3-12V sensors, used to set or adjust all sensor performance parameters						





# LAMPS

LAMPS



## LED Tubes

Type A  
Ballast Compatible



**T5 & T8**  
P 118

Type B  
Line Voltage



**T5 & T8**  
P 120-123

**T8 Dimmable**  
P 124

**Sign Tube**  
P 126



**Accessories**  
P 128

Type A&B  
Dual Mode



**T8**  
P 130

Type C  
External Driver



**T5 & T8 Dimmable**  
P 132-135

## LED HID Replacement Lamps

Omni-Directional



**Corn Cob**  
P 136-140

Commercial Grade



**A-Shape**  
P 142

**A-Shape - Dimmable**  
P 144

**PAR**  
P 146

Directional



**Horizontal**  
P 148-150

**Multi-Directional**  
P 152

**Vertical**  
P 154

Accessories



**Accessories**  
P 156

## Compact Pin Base Lamps

Type A  
Ballast Compatible



**Directional**  
[P 158](#)

Type B  
Line Voltage



**Directional**  
[P 160](#)

**Omni-Directional**  
[P 162](#)

## Fluorescent Lamps

Linear



**T5, T8, T12, Circline**  
[P 164](#)

## Ultraviolet Germicidal Lamps

Linear & Compact



**Linear & Compact**  
[P 166](#)

# T5 & T8



## Type A - Ballast Compatible

### Features & Benefits

- Plug-and-play application: compatible with most instant start and program start electronic T8 ballasts
- Dimmable with dimming ballasts
- Frosted lens eliminates pixelation
- Instant startup
- Suitable for dry and damp locations



# T5 & T8

## T5 SMARTDRIVE LED

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	BARE LAMP WATTAGE	SYSTEM WATTAGE	LUMENS	BARE LAMP EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	AVAILABLE CCT
KT-LED13T5HE-48GC-8xx-S	4ft	G5	13W	18W	1650	127 lm/W	Glass Coated	240°	Yes	3500K, 4000K, or 5000K
KT-LED25.5T5HO-48GC-8xx-S	4ft	G5	25.5W	28.5W	3200	126 lm/W	Glass Coated	240°	Yes	3000K, 3500K, 4000K, 5000K, or 6500K

## T8 SMARTDRIVE LED

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	BARE LAMP WATTAGE	SYSTEM WATTAGE	LUMENS	NOMINAL BARE LAMP EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	AVAILABLE CCT
KT-LED8T8-24GC-8xx-S /G3	2ft	G13	8W	10W	1250	156 lm/W	Glass Coated	210°	Yes	3500K, 4000K, or 5000K
KT-LED10T8-36GC-8xx-S /G3	3ft	G13	10W	11.5W	1450	145 lm/W	Glass Coated	210°	Yes	3500K, 4000K, or 5000K
KT-LED9.5T8-48G-8xx-S /G3	4ft	G13	9.5W	11.5W	1740	183 lm/W	Glass	210°	Yes	3500K, 4000K, or 5000K
KT-LED11T8-48G-8xx-S /G3	4ft	G13	11W	13W	1800	164 lm/W	Glass	210°	Yes	3500K, 4000K, or 5000K
KT-LED11T8-48GC-8xx-S /G3	4ft	G13	11W	13W	1800	164 lm/W	Glass Coated	210°	Yes	3500K, 4000K, or 5000K
KT-LED13.5T8-48GC-8xx-S /G3	4ft	G13	14W	16W	2200	157 lm/W	Glass Coated	210°	Yes	3500K, 4000K, or 5000K

## T8 U-Bend SMARTDRIVE LED

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	BARE LAMP WATTAGE	SYSTEM WATTAGE	LUMENS	NOMINAL BARE LAMP EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	AVAILABLE CCT
KT-LED15T8-U6GC-8xx-S	6 inch U-bend	G13	15W	17.5W	2200	147 lm/W	Glass Coated	220°	Yes	3000K, 3500K, 4000K, or 5000K

# T5 & T8



## Ballast Bypass



### Features & Benefits

- Replacement for conventional T5HE, T5HO, T8, T8HO fluorescent lamps
- Isolated integral driver eliminates the need for external driver or ballast
- Multiple wiring configurations
- Available with Color Select technology; switch between 5 color temperatures
- Environmentally friendly: no mercury used
- Operating temperature: -20°C/-4°F to 45°C/113°F
- Low flicker options
- All lamps listed as DLC compliant have dimming capabilities; please contact Keystone sales rep for more details



# T5 & T8

### T5HE | Single- and Double-Ended

**DIRECT DRIVE DX2**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	LUMENS	EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	CRI	AVAILABLE CCT
KT-LED9T5HE-24GC-8xx-DX2	2ft	G5	9W	1200	133 lm/W	Glass Coated	140°	N/A	>80	3500K, 4000K, or 5000K
KT-LED12T5HE-36GC-8xx-DX2	3ft	G5	12W	1600	133 lm/W	Glass Coated	140°	N/A	>80	3500K, 4000K, or 5000K
KT-LED13T5HE-48GC-8xx-DX2	4ft	G5	13W	1700	131 lm/W	Glass Coated	140°	Yes	>80	3500K, 4000K, or 5000K

### T5HO | Single- and Double-Ended

**DIRECT DRIVE DX2**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	LUMENS	EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	CRI	AVAILABLE CCT
KT-LED12T5HO-24GC-8xx-DX2	2ft	G5	12W	1600	133 lm/W	Glass Coated	140°	N/A	>80	3500K, 4000K, or 5000K
KT-LED16T5HO-36GC-8xx-DX2	3ft	G5	16W	2100	136 lm/W	Glass Coated	140°	N/A	>80	3500K, 4000K, or 5000K
KT-LED25T5HO-48GC-8xx-DX2	4ft	G5	25W	3500	140 lm/W	Glass Coated	140°	Yes	>80	3500K, 4000K, 5000K, or 6500K

### T8 | Single- and Double-Ended | Color Select

**DIRECT DRIVE DX2**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	COLOR TEMP	LUMENS	EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	CRI
KT-LED7T8-24G-8CSJ-DX2	2ft	G13	7W	3000K	950	135 lm/W	Glass	240°	Yes	>80
				3500K	975	139 lm/W				
				4000K	1000	142 lm/W				
				5000K	1000	142 lm/W				
				6500K	975	139 lm/W				
KT-LED11T8-36G-8CSJ-DX2	3ft	G13	11W	3000K	1450	132 lm/W	Glass	240°	Yes	>80
				3500K	1475	134 lm/W				
				4000K	1500	136 lm/W				
				5000K	1500	136 lm/W				
				6500K	1475	134 lm/W				
KT-LED10.5T8-48G-8CSJ-DX2	4ft	G13	10.5W	3000K	1575	150 lm/W	Glass	240°	Yes	>80
				3500K	1600	152 lm/W				
				4000K	1650	157 lm/W				
				5000K	1650	157 lm/W				
				6500K	1600	152 lm/W				
KT-LED12T8-48G-8CSJ-DX2	4ft	G13	12W	3000K	1700	140 lm/W	Glass	240°	Yes	>80
				3500K	1750	145 lm/W				
				4000K	1800	150 lm/W				
				5000K	1800	150 lm/W				
				6500K	1750	145 lm/W				
KT-LED14.5T8-48G-8CSJ-DX2	4ft	G13	14.5W	3000K	1725	120 lm/W	Glass	240°	Yes	>80
				3500K	1850	127 lm/W				
				4000K	1850	127 lm/W				
				5000K	1850	127 lm/W				
				6500K	1800	124 lm/W				
KT-LED15T8-48G-8CSJ-DX2	4ft	G13	15W	3000K	2050	136 lm/W	Glass	240°	Yes	>80
				3500K	2135	142 lm/W				
				4000K	2200	146 lm/W				
				5000K	2200	146 lm/W				
				6500K	2125	142 lm/W				

\* Preset to 4000K CCT; Color Uniformity: CCT (Correlated Color Temperature) range as per guidelines outlined in ANSI C78.377-2017

Continued on next page



# T5 & T8

# T5 & T8

## T8 | Single- and Double-Ended

### DIRECT DRIVE **DX2**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	LUMENS	EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	CRI	AVAILABLE CCT
KT-LED7T8-18GC-8xx-DX2	18 inch	G13	7W	750	107 lm/W	Glass Coated	220°	N/A	>80	4000K
KT-LED7T8-24GC-8xx-DX2	2ft	G13	7W	900	136 lm/W	Glass Coated	220°	Yes	>80	3000K, 3500K, 4000K, 5000K, or 6500K
KT-LED12T8-36GC-8xx-DX2	3ft	G13	12W	1450	121 lm/W	Glass Coated	220°	Yes	>80	3500K, 4000K, or 5000K
KT-LED9T8-48G-8xx-DX2	4ft	G13	9W	1650	183 lm/W	Glass	240°	Yes	>80	3500K, 4000K, or 5000K
KT-LED10.5T8-48G-8xx-DX2 /G2	4ft	G13	10.5W	1720	164 lm/W	Glass	240°	Yes	>80	2700K, 3000K, 3500K, 4000K, or 5000K
KT-LED12.5T8-48G-8xx-DX2	4ft	G13	12.5W	1850	139 lm/W	Glass	240°	Yes	>80	3000K, 3500K, 4000K, or 5000K
KT-LED14.5T8-48G-8xx-DX2 /G2	4ft	G13	14.5W	2000	130 lm/W	Glass	240°	Yes	>80	3000K, 3500K, 4000K, 5000K, or 6500K
KT-LED15T8-48GC-8xx-DX2 /G2	4ft	G13	15W	2000	140 lm/W	Glass Coated	220°	Yes	>80	3000K, 3500K, 4000K, 5000K, or 6500K
KT-LED18.5T8-48GC-8xx-DX2 /G2	4ft	G13	18.5W	2600	141 lm/W	Glass Coated	220°	Yes	>80	3500K, 4000K, 5000K, or 6500K
KT-LED25T8-48G-8xx-DX2	4ft	G13	25W	3000	120 lm/W	Glass	240°	Yes	>80	3500K, 4000K, or 5000K

## T8 | Made in the USA | Single- and Double-Ended

### DIRECT DRIVE **DX2**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	LUMENS	EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	CRI	AVAILABLE CCT
KT-LED9T8-24G-8xx-DX2 /USA	2ft	G13	9W	1125	125 lm/W	Glass	240°	Yes	>80	3500K or 4000K
KT-LED12T8-36G-8xx-DX2 /USA	3ft	G13	12W	1720	119 lm/W	Glass	240°	Yes	>80	3500K or 4000K
KT-LED10.5T8-48G-8xx-DX2 /USA	4ft	G13	10.5W	1425	164 lm/W	Glass	240°	Yes	>80	3500K, 4000K, or 5000K
KT-LED18.5T8-48G-8xx-DX2 /USA	4ft	G13	18.5W	2600	141 lm/W	Glass	240°	Yes	>80	3500K or 4000K

## T8 | Single- and Double-Ended



### DIRECT DRIVE **DX2**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	LUMENS	EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	CRI	AVAILABLE CCT
KT-LED15T8-48GC-9xx-DX2	4ft	G13	15W	1675	112 lm/W	Glass Coated	220°	Yes	>90	5000K

## T8 | Double-Ended

### DIRECT DRIVE **D2**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	LUMENS	EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	CRI	AVAILABLE CCT
KT-LED10.5T8-48G-8xx-D2 /G2	4ft	G13	10.5W	1650	157 lm/W	Glass	240°	Yes	>80	3500K, 4000K, or 5000K
KT-LED14.5T8-48G-8xx-D2 /G2	4ft	G13	14.5W	1800	147 lm/W	Glass	240°	Yes	>80	3500K, 4000K, or 5000K
KT-LED15T8-48G-8xx-D2 /G2	4ft	G13	15W	2200	147 lm/W	Glass	240°	Yes	>80	3500K, 4000K, or 5000K
KT-LED18T8H0-48G-8xx-D2	4ft	R17D	18W	2500	139 lm/W	Glass	240°	N/A	>80	4000K, or 5000K
KT-LED25T8-96G-8xx-D2	8ft	FA8	25W	3500	145 lm/W	Glass	240°	Yes	>80	3500K, 4000K, or 5000K
KT-LED36T8-96P-8xx-D	8ft	FA8	36W	4000	111 lm/W	Plastic	180°	N/A	>80	3500K, 4000K, or 5000K
KT-LED40T8-96G-8xx-D2	8ft	FA8	40W	5500	137.5 lm/W	Glass	240°	Yes	>80	3500K, 4000K, or 5000K
KT-LED40T8-96GC-8xx-D2	8ft	FA8	40W	5500	137.5 lm/W	Glass Coated	210°	Yes	>80	4000K, or 5000K
KT-LED40T8H0-96G-8xx-D2	8ft	R17D	40W	5500	137.5 lm/W	Glass	240°	N/A	>80	4000K, 5000K, or 6500K
KT-LED40T8H0-96GC-8xx-D2	8ft	R17D	40W	5500	137.5 lm/W	Glass Coated	210°	N/A	>80	4000K, 5000K, or 6500K
KT-LED54T8-96P-8xx-D/G2	8ft	R17D	54W	5800	110 lm/W	Plastic	180°	N/A	>80	4000K, 5000K, or 6500K

## T8 | Single-Ended

### DIRECT DRIVE **LED1**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	LUMENS	EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	CRI	AVAILABLE CCT
KT-LED7T8-18GC-8xx-D	18 inch	G13	7W	800	114 lm/W	Glass Coated	220°	N/A	>80	3000K, 4000K, 5000K, or 6500K
KT-LED7T8-24GC-8xx-D	2ft	G13	7W	950	136 lm/W	Glass Coated	220°	Yes	>80	3000K, 3500K, 4000K, 5000K, or 6500K
KT-LED12T8-36GC-8xx-D	3ft	G13	12W	1550	129 lm/W	Glass Coated	220°	Yes	>80	3000K, 3500K, 4000K, 5000K, or 6500K
KT-LED9T8-48G-8xx-D	4ft	G13	9W	1650	152 lm/W	Glass	240°	Yes	>80	3500K, 4000K, or 5000K
KT-LED10.5T8-48G-8xx-D	4ft	G13	10.5W	1750	162 lm/W	Glass	240°	Yes	>80	3500K, 4000K, or 5000K
KT-LED10.5T8-48GC-8xx-D	4ft	G13	10.5W	1750	162 lm/W	Glass Coated	220°	Yes	>80	3500K, 4000K, or 5000K
KT-LED12.5T8-48G-8xx-D	4ft	G13	12.5W	1850	139 lm/W	Glass	240°	Yes	>80	3500K, 4000K, or 5000K
KT-LED12.5T8-48GC-8xx-D	4ft	G13	12.5W	1850	139 lm/W	Glass Coated	220°	Yes	>80	3000K, 3500K, 4000K, or 5000K
KT-LED15T8-48GC-8xx-D /G3	4ft	G13	15W	1930	127 lm/W	Glass Coated	220°	Yes	>80	3000K, 3500K, 4000K, 5000K, or 6500K
KT-LED18.5T8-48GC-8xx-D /G2	4ft	G13	18.5W	2600	142 lm/W	Glass Coated	220°	Yes	>80	3500K, 4000K, or 5000K
KT-LED24T8-60GC-8xx-D	5ft	G13	24W	2500	104 lm/W	Glass Coated	220°	N/A	>80	4000K or 5000K
KT-LED32T8-72GC-8xx-D	6ft	G13	32W	3300	106 lm/W	Glass Coated	220°	N/A	>80	4000K or 5000K

## T8 | Single-Ended



### DIRECT DRIVE **LED1**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	LUMENS	EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	CRI	AVAILABLE CCT
KT-LED15T8-48GC-9xx-D	4ft	G13	15W	1675	112 lm/W	Glass Coated	220°	Yes	>90	4000K or 5000K

## T8 U-Bend | Single-Ended

### DIRECT DRIVE **LED1**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	LUMENS	EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	CRI	AVAILABLE CCT
KT-LED18T8-U6GC-8xx-D	6 inch U-bend	G13	18W	2200	122 lm/W	Glass Coated	220°	Yes	>80	3500K, 4000K, or 5000K
KT-LED15T8-U1G-8xx-D	1 5/8 inch U-bend	G13	15W	1800	120 lm/W	Glass	240°	Yes	>80	3500K, 4000K, or 5000K

## T8 | Black Light | Single-Ended

### DIRECT DRIVE **LED1**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	LUMENS	EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	CRI	AVAILABLE CCT
KT-LED12T8-48G-BL-D	4ft	G13	12W	N/A	N/A	Glass	240°	N/A	N/A	Black Light (365nm)



# T8 Dimmable



# T8 Dimmable

## T8 Line Voltage | 0-10V Dimming | Single-Ended

**DIRECT DRIVE LED**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	LUMENS	EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	CRI	AVAILABLE CCT
KT-LED7T8-24GC-8xx-D-VDIM	2ft	G13	7W	1000	142 lm/W	Glass Coated	220°	Yes	>80	3500K, 4000K, or 5000K
KT-LED12T8-36GC-8xx-D-VDIM	3ft	G13	12W	1550	130 lm/W	Glass Coated	220°	Yes	>80	3500K, 4000K, or 5000K
KT-LED10.5T8-48GC-8xx-D-VDIM	4ft	G13	10.5W	1700	161 lm/W	Glass Coated	220°	Yes	>80	3500K, 4000K, or 5000K
KT-LED15T8-48GC-8xx-D-VDIM	4ft	G13	15W	2200	146 lm/W	Glass Coated	220°	Yes	>80	3500K, 4000K, or 5000K

## T8 Line Voltage | Phase Dimming | Single-Ended

**DIRECT DRIVE LED**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	LUMENS	EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	CRI	AVAILABLE CCT
KT-LED14.5T8-48GC-8xx-D-FDIM	4ft	G13	14.5W	1900	131 lm/W	Glass Coated	240°	Yes	>80	3500K, 4000K, or 5000K
KT-LED14.5T8-48GC-9xx-D-FDIM	4ft	G13	14.5W	1650	113 lm/W	Glass Coated	240°	N/A	>90	5000K

## Ballast Bypass

### Features & Benefits

- Replacement for conventional fluorescent lamps
- Isolated integral driver eliminates the need for external driver or ballast
- Dimmable; low optical flicker
- Frosted lens eliminates pixelation
- Environmentally friendly: no mercury used



# Sign Tube



## Ballast Bypass

### Features & Benefits

- Installs using existing sockets in the sign; all necessary wiring can be done within ballast raceway
- Over 50% more energy efficient than HO fluorescent lamps
- Optical lens over individual LEDs for optimal light spread within the sign
- No external driver or power supply needed
- UL Classified: LED sign retrofit, evaluated to UL 48 / UL 879A standards
- Listed in the UL SAM Manual
- 120-277V input
- Operating temperature: -30°C/-22°F to 55°C/131°F
- Optimized spacing 6" from the face and 12" on center



RoHS Compliant

50,000 HOUR LIFETIME

5 YEAR WARRANTY



SAM

# Sign Tube

### T8 | 360° Sign Tube | Double-Ended

**SIGNHERO**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	LUMENS	LUMENS PER FOOT PER SIDE	EFFICACY	CONSTRUCTION	LIGHT SPREAD	AVAILABLE CCT
KT-LED7T8-18P2S-8xx-D /G2	18"	R17D	7W	900	300	129 lm/W	Plastic Aluminum	360°	4000K or 6500K
KT-LED10T8-24P2S-8xx-D /G2	24"	R17D	10W	1200	300	120 lm/W	Plastic Aluminum	360°	4000K or 6500K
KT-LED13T8-30P2S-8xx-D /G2	30"	R17D	13W	1600	320	123 lm/W	Plastic Aluminum	360°	4000K or 6500K
KT-LED16T8-36P2S-8xx-D /G2	36"	R17D	16W	2000	333	125 lm/W	Plastic Aluminum	360°	4000K or 6500K
KT-LED18T8-42P2S-8xx-D /G2	42"	R17D	18W	2250	321	125 lm/W	Plastic Aluminum	360°	4000K or 6500K
KT-LED21T8-48P2S-8xx-D /G2	48"	R17D	21W	2600	321	124 lm/W	Plastic Aluminum	360°	4000K or 6500K
KT-LED26T8-60P2S-8xx-D /G2	60"	R17D	26W	3250	325	125 lm/W	Plastic Aluminum	360°	4000K or 6500K
KT-LED28T8-64P2S-8xx-D /G2	64"	R17D	28W	3450	325	123 lm/W	Plastic Aluminum	360°	4000K or 6500K
KT-LED31T8-72P2S-8xx-D /G2	72"	R17D	31W	4000	333	129 lm/W	Plastic Aluminum	360°	4000K or 6500K
KT-LED37T8-84P2S-8xx-D /G2	84"	R17D	37W	4700	336	127 lm/W	Plastic Aluminum	360°	4000K or 6500K
KT-LED42T8-96P2S-8xx-D /G2	96"	R17D	42W	5300	331	126 lm/W	Plastic Aluminum	360°	4000K or 6500K
KT-LED47T8-108P2S-8xx-D /G2	108"	R17D	47W	5800	322	123 lm/W	Plastic Aluminum	360°	4000K or 6500K
KT-LED50T8-117P2S-8xx-D /G2	117"	R17D	50w	6200	317	124 lm/W	Plastic Aluminum	360°	4000K or 6500K
KT-LED52T8-120P2S-8xx-D /G2	120"	R17D	52W	6400	320	123 lm/W	Plastic Aluminum	360°	4000K or 6500K

### T8 | 180° Sign Tube | Double-Ended

**SIGNHERO**

CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	WATTAGE	LUMENS	LUMENS PER FOOT PER SIDE	EFFICACY	CONSTRUCTION	LIGHT SPREAD	AVAILABLE CCT
KT-LED4T8-18PIS-8xx-D /G2	18"	R17D	4W	480	320	120 lm/W	Plastic Aluminum	180°	4000K or 6500K
KT-LED5T8-24PIS-8xx-D /G2	24"	R17D	5W	600	300	120 lm/W	Plastic Aluminum	180°	4000K or 6500K
KT-LED7T8-30PIS-8xx-D /G2	30"	R17D	7W	840	336	120 lm/W	Plastic Aluminum	180°	4000K or 6500K
KT-LED8T8-36PIS-8xx-D /G2	36"	R17D	8W	1000	334	125 lm/W	Plastic Aluminum	180°	4000K or 6500K
KT-LED9T8-42PIS-8xx-D /G2	42"	R17D	9W	1125	321	125 lm/W	Plastic Aluminum	180°	4000K or 6500K
KT-LED11T8-48PIS-8xx-D /G2	48"	R17D	11W	1340	335	122 lm/W	Plastic Aluminum	180°	4000K or 6500K
KT-LED13T8-60PIS-8xx-D /G2	60"	R17D	13W	1625	325	125 lm/W	Plastic Aluminum	180°	4000K or 6500K
KT-LED14T8-64PIS-8xx-D /G2	64"	R17D	14W	1725	323	123 lm/W	Plastic Aluminum	180°	4000K or 6500K
KT-LED16T8-72PIS-8xx-D /G2	72"	R17D	16W	2000	333	125 lm/W	Plastic Aluminum	180°	4000K or 6500K
KT-LED19T8-84PIS-8xx-D /G2	84"	R17D	19W	2350	335	124 lm/W	Plastic Aluminum	180°	4000K or 6500K
KT-LED21T8-96PIS-8xx-D /G2	96"	R17D	21W	2650	331	126 lm/W	Plastic Aluminum	180°	4000K or 6500K
KT-LED24T8-108PIS-8xx-D /G2	108"	R17D	24W	2900	332	120 lm/W	Plastic Aluminum	180°	4000K or 6500K
KT-LED25T8-117PIS-8xx-D /G2	117"	R17D	25W	3100	317	124 lm/W	Plastic Aluminum	180°	4000K or 6500K
KT-LED26T8-120PIS-8xx-D /G2	120"	R17D	26W	3200	320	123 lm/W	Plastic Aluminum	180°	4000K or 6500K

Continued on next page

# Accessories

## Single-Ended Wiring Harness

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-SOCKET-T8-U-SI-2-W	2-lamp wiring harness for U-bend LED tubes, includes (2) pre-wired straight insertion sockets plus (2) additional sockets, with power quick disconnect	
KT-WH-FA8-2L	Wiring harness for single pin 8' Direct Drive LED tubes	

# Accessories

## Sockets

CATALOG NUMBER	DESCRIPTION	
KT-SOCKET-T8-U-T	Non-shunted tall T8 socket with push-through with nub, approximately 30mm	
KT-SOCKET-T8-U-S	Non-shunted short T8 socket with push-through with nub, approximately 23mm	
KT-SOCKET-T8-U-SI	Standard medium bi-pin socket, slide-on / snap-in, non-shunted, or T8 U-bend lamps	
KT-SOCKET-T8-S-T	Tall medium bi-pin socket, snap-in with nib, shunted, for T8 and T12 lamps	
KT-SOCKET-T8-S-S	Standard medium bi-pin socket, snap-in with nib, shunted, for T8 and T12 lamps	
KT-SOCKET-T5-U-T	Tall bi-pin G5 base, non-shunted, for T5 lamps	
KT-SOCKET-T5-S	Short miniature bi-pin G5 base, non-shunted, for T5 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-RDC-SE-SIGN	Recessed double contact socket with stationary end for H0 lamp sign applications	
KT-SOCKET-RDC-SPR-SIGN	Recessed double contact socket with plunger end for H0 lamp sign applications	
KT-SOCKET-RDC-PE	Recessed double contact socket with plunger end for H0 lamps	
KT-SOCKET-RDC-SE	Recessed double contact socket with stationary end for H0 lamps	



# T8



## Dual Mode

### Features & Benefits

- Plug-and-play application: compatible with most instant start and program start electronic T8 ballasts
- Bypass ballast application: runs on 120-277V line voltage
- Single- or double-ended wiring in Line Voltage mode
- All lamps listed as DLC compliant have dimming capabilities. Please contact Keystone sales rep for more details.



# T8

### T8 | Single- and Double-Ended | Color Select



CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	BARE LAMP WATTAGE	SYSTEM WATTAGE (WITH BALLAST)	COLOR TEMP	LUMENS (LINE VOLTAGE)	BARE LAMP EFFICACY (LINE VOLTAGE)	CONSTRUCTION	LIGHT SPREAD	DLC
KT-LED75T8-24G-8CSJ-X3	2ft	G13	75W	9.4W	3000K	1100	146 lm/w	Glass	240	Yes
					3500K	1150	153 lm/w			
					4000K	1175	156 lm/w			
					5000K	1150	153 lm/w			
KT-LED10T8-36G-8CSJ-X3	3ft	G13	10W	12.4W	3000K	1500	150 lm/w	Glass	240	Yes
					3500K	1550	155 lm/w			
					4000K	1600	160 lm/w			
					5000K	1600	160 lm/w			
KT-LED13T8-48G-8CSJ-X3	4ft	G13	13W	15.5W	3000K	1950	149 lm/w	Glass	240	Yes
					3500K	2000	153 lm/w			
					4000K	2000	153 lm/w			
					5000K	2050	157 lm/w			
					6500K	2000	153 lm/w			

### T8 | Single- and Double-Ended



CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	BARE LAMP WATTAGE	SYSTEM WATTAGE (WITH BALLAST)	LUMENS	BARE LAMP EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	AVAILABLE CCT
KT-LED9T8-24G-8xx-X3	2ft	G13	9W	12W	1450	138 lm/W	Glass	220°	Yes	3500K, 4000K, or 5000K
KT-LED11T8-36G-8xx-X3	3ft	G13	11W	14W	1700	138 lm/W	Glass	220°	Yes	3500K, 4000K, or 5000K
KT-LED13T8-48G-8xx-X3	4ft	G13	13W	15.5W	1950	146 lm/W	Glass	220°	Yes	3000K, 3500K, 4000K, or 5000K

# T5 & T8 Dimmable



## External Driver

### Features & Benefits

- Keystone T8 linear and U-bend lamp and driver pairings wire exactly the same as instant start T8 ballasts for quick and easy installation
- 0-10V dimmable; low optical flicker
- T8 and T5 linear lamps are glass construction with metal end caps; U-bend lamps are nanoplastc construction
- UL Type C LED tubes, powered by Keystone Type C LED drivers (driver required)
- UL Classified Std. 1598C
- T8 and 4' T5 Keystone external drive lamps are DLC listed
- Operating temperature: -20°C/-4°F to 45°C/113°F



RoHS Compliant

5 YEAR WARRANTY



# T5 & T8 Dimmable

### T5HE (GEN 1 - 50,000-HOUR LIFETIME)



CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	BARE LAMP WATTAGE	SYSTEM WATTAGE (WITH DRIVER)	LUMENS	BARE LAMP EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	AVAILABLE CCT
KT-LED8T5HE-24G-8xx-E	2ft	G5	8W	9W	1100	133 lm/W	Glass	240°	N/A	3500K, 4000K, or 5000K
KT-LED10T5HE-36G-8xx-E	3ft	G5	10W	11.5W	1500	133 lm/W	Glass	240°	N/A	3500K, 4000K, or 5000K
KT-LED12T5HE-48G-8xx-E	4ft	G5	12W	13W	1800	138 lm/W	Glass	240°	Yes	3500K, 4000K, or 5000K

### T5HO (GEN 1 - 50,000-HOUR LIFETIME)



CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	BARE LAMP WATTAGE	SYSTEM WATTAGE (WITH DRIVER)	LUMENS	BARE LAMP EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	AVAIL COLOR TEMP
KT-LED12T5HO-24G-8xx-E	2ft	G5	12W	13W	1600	133 lm/W	Glass	240°	N/A	3500K, 4000K, or 5000K
KT-LED15T5HO-36G-8xx-E	3ft	G5	15W	18W	2100	133 lm/W	Glass	240°	N/A	3500K, 4000K, or 5000K
KT-LED22T5HO-48G-8xx-E	4ft	G5	22W	25W	3400	136 lm/W	Glass	240°	Yes	3500K, 4000K, or 5000K

### Drivers for T5 for Type C (GEN 1)



CATALOG NUMBER	DESCRIPTION
KTLD-2LT5HE-UV-8C-VDIM	LED driver for (1-2) 2' T5 HE Type C lamps; 120-277V input, 0-10V dimming, 185mA output current
KTLD-4LT5HE-UV-8C-VDIM	LED driver for (3-4) 2' T5 HE Type C lamps; 120-277V input, 0-10V dimming, 185mA output current
KTLD-2LT5HE-UV-10C-VDIM	LED driver for (1-2) 3' T5 HE Type C lamps; 120-277V input, 0-10V dimming, 260mA output current
KTLD-4LT5HE-UV-10C-VDIM	LED driver for (3-4) 3' T5 HE Type C lamps; 120-277V input, 0-10V dimming, 260mA output current
KTLD-2LT5HE-UV-12C-VDIM	LED driver for (1-2) 4' T5 HE Type C lamps; 120-277V input, 0-10V dimming, 270mA output current
KTLD-4LT5HE-UV-12C-VDIM	LED driver for (3-4) 4' T5 HE Type C lamps; 120-277V input, 0-10V dimming, 270mA output current
KTLD-2LT5HO-UV-12C-VDIM	LED driver for (1-2) 2' T5 HO Type C lamps; 120-277V input, 0-10V dimming, 270mA output current
KTLD-4LT5HO-UV-12C-VDIM	LED driver for (3-4) 2' T5 HO Type C lamps; 120-277V input, 0-10V dimming, 270mA output current
KTLD-2LT5HO-UV-15C-VDIM	LED driver for (1-2) 3' T5 HO Type C lamps; 120-277V input, 0-10V dimming, 370mA output current
KTLD-4LT5HO-UV-15C-VDIM	LED driver for (3-4) 3' T5 HO Type C lamps; 120-277V input, 0-10V dimming, 370mA output current
KTLD-2LT5HO-UV-22C-VDIM	LED driver for (1-2) 4' T5 HO Type C lamps; 120-277V input, 0-10V dimming, 500mA output current
KTLD-4LT5HO-UV-22C-VDIM	LED driver for (3-4) 4' T5 HO Type C lamps; 120-277V input, 0-10V dimming, 500mA output current

Continued on next page

# T5 & T8 Dimmable

## T8 (GEN 1 - 50,000-HOUR LIFETIME)



CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	BARE LAMP WATTAGE	SYSTEM WATTAGE (WITH DRIVER)	LUMENS	BARE LAMP EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	AVAIL COLOR TEMP
KT-LED8T8-24G-8xx-E	2ft	G13	8W	9W	1200	133 lm/W	Glass	220°	Yes	3500K, 4000K, or 5000K
KT-LED12T8-36G-8xx-E	3ft	G13	12W	13W	1780	137 lm/W	Glass	220°	Yes	3500K, 4000K, or 5000K
KT-LED10T8-48G-8xx-E	4ft	G13	10W	11.5W	1700	148 lm/W	Glass	220°	Yes	3000K, 3500K, 4000K, or 5000K
KT-LED12T8-48G-8xx-E	4ft	G13	12W	13W	1800	139 lm/W	Glass	220°	Yes	3500K, 4000K, or 5000K
KT-LED12T8-U6P-8xx-E	6 inch U-bend	G13	12W	13W	1800	138 lm/W	Glass	220°	Yes	3500K, 4000K, or 5000K

## Drivers for T8 Type C (GEN 1)



CATALOG NUMBER	DESCRIPTION
KTLD-2LT8-UV-8C-VDIM	LED driver for (1-2) 2' Type C lamps; 120-277V input, 0-10V dimming, 180mA output current
KTLD-4LT8-UV-8C-VDIM	LED driver for (3-4) 2' Type C lamps; 120-277V input, 0-10V dimming, 180mA output current
KTLD-2LT8-UV-10C-VDIM	LED driver for (1-2) 4' Type C lamps; 120-277V input, 0-10V dimming, 260mA output current
KTLD-4LT8-UV-10C-VDIM	LED driver for (3-4) 4' Type C lamps; 120-277V input, 0-10V dimming, 260mA output current
KTLD-1LT8-UV-12C-VDIM	LED driver for (1) 4' or 3' Type C lamps; 120-277V input, 0-10V dimming, 270mA output current
KTLD-2LT8-UV-12C-VDIM	LED driver for (1-2) 4' or 3' Type C lamps; 120-277V input, 0-10V dimming, 270mA output current
KTLD-4LT8-UV-12C-VDIM	LED driver for (3-4) 4' or 3' Type C lamps; 120-277V input, 0-10V dimming, 270mA output current

## T5HE | Single- and Double-Ended (GEN 2 - 70,000-HOUR LIFETIME)



CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	BARE LAMP WATTAGE	SYSTEM WATTAGE (WITH DRIVER)	LUMENS	BARE LAMP EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	AVAILABLE CCT
KT-LED8T5HE-24G-8xx-E /G2	2ft	G5	8W	9W	1100	133 lm/W	Glass	240°	N/A	3500K, 4000K, or 5000K
KT-LED10T5HE-36G-8xx-E /G2	3ft	G5	10W	11.5W	1500	133 lm/W	Glass	240°	N/A	3500K, 4000K, or 5000K
KT-LED12T5HE-48G-8xx-E /G2	4ft	G5	12W	13W	1800	138 lm/W	Glass	240°	Yes	3500K, 4000K, or 5000K

## T5HO | Single- and Double-Ended (GEN 2 - 70,000-HOUR LIFETIME)



CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	BARE LAMP WATTAGE	SYSTEM WATTAGE (WITH DRIVER)	LUMENS	BARE LAMP EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	AVAIL COLOR TEMP
KT-LED12T5HO-24G-8xx-E /G2	2ft	G5	12W	13W	1600	133 lm/W	Glass	240°	N/A	3500K, 4000K, or 5000K
KT-LED15T5HO-36G-8xx-E /G2	3ft	G5	15W	18W	2100	133 lm/W	Glass	240°	N/A	3500K, 4000K, or 5000K
KT-LED22T5HO-48G-8xx-E /G2	4ft	G5	22W	25W	3400	136 lm/W	Glass	240°	Yes	3500K, 4000K, or 5000K

# T5 & T8 Dimmable

## Drivers for T5 (GEN 2)



CATALOG NUMBER	DESCRIPTION
KTLD-2LT5HE-UV-8C-VDIM /G2	LED Driver for External Drive Type C LED tubes, Runs 1 or 2 of the KT-LED8T5HE-24G-8xx-E /G2 lamps, 120-277V Input, 0-10V Dimming, 70k hrs
KTLD-4LT5HE-UV-8C-VDIM /G2	LED Driver for External Drive Type C LED tubes, Runs 3 or 4 of the KT-LED8T5HE-24G-8xx-E /G2 lamps, 120-277V Input, 0-10V Dimming, 70k hrs
KTLD-2LT5HE-UV-10C-VDIM /G2	LED Driver for External Drive Type C LED tubes, Runs 1 or 2 of the KT-LED10T5HE-36G-8xx-E /G2 lamps, 120-277V Input, 0-10V Dimming, 70k hrs
KTLD-4LT5HE-UV-10C-VDIM /G2	LED Driver for External Drive Type C LED tubes, Runs 3 or 4 of the KT-LED10T5HE-36G-8xx-E /G2 lamps, 120-277V Input, 0-10V Dimming, 70k hrs
KTLD-2LT5HE-UV-12C-VDIM /G2	LED Driver for External Drive Type C LED tubes, Runs 1 or 2 of the KT-LED12T5HE-48G-8xx-E /G2 lamps, 120-277V Input, 0-10V Dimming, 70k hrs
KTLD-4LT5HE-UV-12C-VDIM /G2	LED Driver for External Drive Type C LED tubes, Runs 3 or 4 of the KT-LED12T5HE-48G-8xx-E /G2 lamps, 120-277V Input, 0-10V Dimming, 70k hrs
KTLD-2LT5HO-UV-12C-VDIM	LED Driver for External Drive Type C LED tubes, Runs 1 or 2 of the KT-LED12T5HO-24G-8xx-E /G2 lamps, 120-277V Input, 0-10V Dimming, 70k hrs
KTLD-4LT5HO-UV-12C-VDIM	LED Driver for External Drive Type C LED tubes, Runs 3 or 4 of the KT-LED12T5HO-24G-8xx-E /G2 lamps, 120-277V Input, 0-10V Dimming, 70k hrs
KTLD-2LT5HO-UV-15C-VDIM	LED Driver for External Drive Type C LED tubes, Runs 1 or 2 of the KT-LED15T5HO-36G-8xx-E /G2 lamps, 120-277V Input, 0-10V Dimming, 70k hrs
KTLD-4LT5HO-UV-15C-VDIM	LED Driver for External Drive Type C LED tubes, Runs 3 or 4 of the KT-LED15T5HO-36G-8xx-E /G2 lamps, 120-277V Input, 0-10V Dimming, 70k hrs
KTLD-2LT5HO-UV-22C-VDIM	LED Driver for External Drive Type C LED tubes, Runs 1 or 2 of the KT-LED22T5HO-48G-8xx-E /G2 lamps, 120-277V Input, 0-10V Dimming, 70k hrs
KTLD-4LT5HO-UV-22C-VDIM	LED Driver for External Drive Type C LED tubes, Runs 3 or 4 of the KT-LED22T5HO-48G-8xx-E /G2 lamps, 120-277V Input, 0-10V Dimming, 70k hrs

## T8 | Single- and Double-Ended (GEN 2 - 70,000-HOUR LIFETIME)



CATALOG NUMBER	NOMINAL LENGTH	BASE TYPE	BARE LAMP WATTAGE	SYSTEM WATTAGE (WITH DRIVER)	LUMENS	BARE LAMP EFFICACY	CONSTRUCTION	LIGHT SPREAD	DLC	AVAIL COLOR TEMP
KT-LED8T8-24G-8xx-E /G2	2ft	G13	8W	9W	1200	133 lm/W	Glass	240°	Yes	3500K, 4000K, or 5000K
KT-LED12T8-36G-8xx-E /G2	3ft	G13	12W	13W	1780	137 lm/W	Glass	240°	Yes	3500K, 4000K, or 5000K
KT-LED10T8-48G-8xx-E /G2	4ft	G13	10W	11.5W	1700	148 lm/W	Glass	240°	Yes	3000K, 3500K, 4000K, or 5000K
KT-LED12T8-48G-8xx-E /G2	4ft	G13	12W	13W	1800	139 lm/W	Glass	240°	Yes	3500K, 4000K, or 5000K
KT-LED13.5T8-48G-8xx-E /G2	4ft	G13	13.5W	15W	2200	147 lm/w	Glass	240°	Yes	3500K, 4000K, or 5000K
KT-LED12T8-U6P-8xx-E /G2	6 inch U-bend	G13	12W	13W	1800	138 lm/W	Glass	240°	Yes	3500K, 4000K, or 5000K

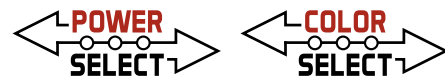
## Drivers for T8 Type C (GEN 2)



CATALOG NUMBER	DESCRIPTION
KTLD-2LT8-UV-8C-VDIM /G2	LED driver for external drive Type C LED tubes, Runs 1 or 2 of the KT-LED8T8-24G-8xx-E /G2 lamps, 120-277V input, 0-10V dimming, 70k hrs
KTLD-4LT8-UV-8C-VDIM /G2	LED driver for external drive Type C LED tubes, Runs 3 or 4 of the KT-LED8T8-24G-8xx-E /G2 lamps, 120-277V input, 0-10V dimming, 70k hrs
KTLD-2LT8-UV-10C-VDIM /G2	LED driver for external drive Type C LED tubes, Runs 1 or 2 of the KT-LED10T8-48G-8xx-E /G2 lamps, 120-277V input, 0-10V dimming, 70k hrs
KTLD-4LT8-UV-10C-VDIM /G2	LED driver for external drive Type C LED tubes, Runs 3 or 4 of the KT-LED10T8-48G-8xx-E /G2 lamps, 120-277V input, 0-10V dimming, 70k hrs
KTLD-1LT8-UV-12C-VDIM /G2	LED driver for external drive Type C LED tubes, Run 1 of the KT-LED12T8-xxG-8xx-E /G2 lamps, 120-277V input, 0-10V dimming, 70k hrs
KTLD-2LT8-UV-12C-VDIM /G2	LED driver for external drive Type C LED tubes, Runs 1 or 2 of the KT-LED12T8-xxG-8xx-E /G2 lamps, 120-277V input, 0-10V dimming, 70k hrs
KTLD-4LT8-UV-12C-VDIM /G2	LED driver for external drive Type C LED tubes, Runs 3 or 4 of the KT-LED12T8-xxG-8xx-E /G2 lamps, 120-277V input, 0-10V dimming, 70k hrs
KTLD-2LT8-UV-13.5C-VDIM /G2	LED driver for external drive Type C LED tubes, Runs 1 or 2 of the KT-LED13.5T8-48G-8xx-E /G2 lamps, 120-277V input, 0-10V dimming, 70k hrs
KTLD-4LT8-UV-13.5C-VDIM /G2	LED driver for external drive Type C LED tubes, Runs 3 or 4 of the KT-LED13.5T8-48G-8xx-E /G2 lamps, 120-277V input, 0-10V dimming, 70k hrs

# Corn Cob

# Corn Cob



## Ballast Bypass

### Features & Benefits

- Ideal way to upgrade existing metal halide HID fixtures to LED
- Available with Keystone Power Select and Color Select technology
- Omni-directional light output allows usage virtually anywhere
- Cost-efficient replacement for legacy metal halide lamps
- Includes SmartPort receptacle to accept various Keystone quick plug-in sensors
- Eliminates the need for legacy ballasts
- Instant startup
- UL Certified and DLC Listed



### Typical Applications



### Power Select and Color Select



CATALOG NUMBER	SELECTABLE WATTAGE	SELECTABLE CCT	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DLC	CRI	METAL HALIDE EQUIVALENT
KT-LED18PSHID-E26-8CSB-D	18W	3000K	2340	130 lm/W	120-277V	E26	N/A	>80	70W MH
		4000K	2560	142 lm/W					
		5000K	2500	139 lm/W					
	12W	3000K	1560	130 lm/W					
		4000K	1700	142 lm/W					
		5000K	1670	139 lm/W					
	9W	3000K	1180	131 lm/W					
		4000K	1290	143 lm/W					
		5000K	1260	140 lm/W					
KT-LED27PSHID-E26-8CSB-D	27W	3000K	3560	132 lm/W	120-277V	E26	N/A	>80	100W MH
		4000K	3890	144 lm/W					
		5000K	3780	140 lm/W					
	22W	3000K	3900	132 lm/W					
		4000K	3170	144 lm/W					
		5000K	3080	140 lm/W					
	18W	3000K	3290	133 lm/W					
		4000K	2610	145 lm/W					
		5000K	3540	141 lm/W					
KT-LED27PSHID-EX39-8CSB-D	27W	3000K	3560	132 lm/W	120-277V	EX39	Yes	>80	100W MH
		4000K	3890	144 lm/W					
		5000K	3780	140 lm/W					
	22W	3000K	3900	132 lm/W					
		4000K	3170	144 lm/W					
		5000K	3080	140 lm/W					
	18W	3000K	3290	133 lm/W					
		4000K	2610	145 lm/W					
		5000K	3540	141 lm/W					
KT-LED36PSHID-E26-8CSB-D	36W	3000K	4860	135 lm/W	120-277V	E26	N/A	>80	150W MH
		4000K	5220	145 lm/W					
		5000K	5040	140 lm/W					
	27W	3000K	3645	135 lm/W					
		4000K	3915	145 lm/W					
		5000K	3780	140 lm/W					
	18W	3000K	2430	135 lm/W					
		4000K	2610	145 lm/W					
		5000K	2520	140 lm/W					
KT-LED36PSHID-EX39-8CSB-D	36W	3000K	4860	135 lm/W	120-277V	EX39	Yes	>80	150W MH
		4000K	5220	145 lm/W					
		5000K	5040	140 lm/W					
	27W	3000K	3645	135 lm/W					
		4000K	3915	145 lm/W					
		5000K	3780	140 lm/W					
	18W	3000K	2430	135 lm/W					
		4000K	2610	145 lm/W					
		5000K	2520	140 lm/W					
KT-LED45PSHID-E26-8CSB-D	45W	3000K	6075	135 lm/W	120-277V	E26	N/A	>80	175W MH
		4000K	6525	145 lm/W					
		5000K	6300	140 lm/W					
	36W	3000K	4860	135 lm/W					
		4000K	5220	145 lm/W					
		5000K	5040	140 lm/W					
	27W	3000K	3645	135 lm/W					
		4000K	3915	145 lm/W					
		5000K	3780	140 lm/W					

Chart continues on next page



# Corn Cob

Chart continued from previous page

## Power Select and Color Select



CATALOG NUMBER	SELECTABLE WATTAGE	SELECTABLE CCT	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DLC	CRI	METAL HALIDE EQUIVALENT
KT-LED45PSHID-EX39-8CSB-D	45W	3000K	6075	135 lm/W	120-277V	EX39	Yes	>80	175W MH
		4000K	6525	145 lm/W					
		5000K	6300	140 lm/W					
	36W	3000K	4860	135 lm/W					
		4000K	5220	145 lm/W					
		5000K	5040	140 lm/W					
	27W	3000K	3645	135 lm/W					
		4000K	3915	145 lm/W					
		5000K	3780	140 lm/W					
KT-LED54PSHID-EX39-8CSB-D	54W	3000K	7290	135 lm/W	120-277V	EX39	Yes	>80	200W MH
		4000K	7830	145 lm/W					
		5000K	7560	140 lm/W					
	45W	3000K	6075	135 lm/W					
		4000K	6525	145 lm/W					
		5000K	6300	140 lm/W					
	36W	3000K	4860	135 lm/W					
		4000K	5220	145 lm/W					
		5000K	5040	140 lm/W					
KT-LED63PSHID-EX39-8CSB-D	63W	3000K	8505	135 lm/W	120-277V	EX39	Yes	>80	250W MH
		4000K	9135	145 lm/W					
		5000K	8820	140 lm/W					
	54W	3000K	7290	135 lm/W					
		4000K	7830	145 lm/W					
		5000K	7560	140 lm/W					
	45W	3000K	6075	135 lm/W					
		4000K	6525	145 lm/W					
		5000K	6300	140 lm/W					
KT-LED80PSHID-EX39-8CSB-D	80W	3000K	10800	135 lm/W	120-277V	EX39	Yes	>80	320W MH
		4000K	11600	145 lm/W					
		5000K	11200	140 lm/W					
	63W	3000K	8505	135 lm/W					
		4000K	9135	145 lm/W					
		5000K	8820	140 lm/W					
	54W	3000K	7290	135 lm/W					
		4000K	7830	145 lm/W					
		5000K	7560	140 lm/W					
KT-LED100PSHID-EX39-8CSB-D	100W	3000K	13500	135 lm/W	120-277V	EX39	Yes	>80	400W MH
		4000K	14500	145 lm/W					
		5000K	14000	140 lm/W					
	80W	3000K	10800	135 lm/W					
		4000K	11600	145 lm/W					
		5000K	11200	140 lm/W					
	63W	3000K	8505	135 lm/W					
		4000K	9135	145 lm/W					
		5000K	8820	140 lm/W					

# Corn Cob



## Power Select




CATALOG NUMBER	SELECTABLE WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DLC	CRI	AVAILABLE CCT	METAL HALIDE EQUIVALENT
KT-LED12PSHID-E26-8xx-D /G4	12W	1740	145 lm/W	120-277V	E26	N/A	>80	3000K, 4000K, or 5000K	50W MH
	9W	1305	145 lm/W						
	6W	870	145 lm/W						
KT-LED18PSHID-E26-8xx-D /G4	18W	2610	145 lm/W	120-277V	E26	N/A	>80	3000K, 4000K, or 5000K	70W MH
	12W	1740	145 lm/W						
	9W	1305	145 lm/W						
KT-LED22PSHID-E26-8xx-D /G4	22W	3190	145 lm/W	120-277V	E26	N/A	>80	3000K, 4000K, or 5000K	70W-100W MH
	18W	2610	145 lm/W						
	12W	1740	145 lm/W						
KT-LED27PSHID-E26-8xx-D /G4	27W	3915	145 lm/W	120-277V	E26	N/A	>80	3000K, 4000K, or 5000K	100W MH
	22W	3190	145 lm/W						
	18W	2610	145 lm/W						
KT-LED27PSHID-EX39-8xx-D /G4	27W	3915	145 lm/W	120-277V	EX39	Yes	>80	3000K, 4000K, or 5000K	100W MH
	22W	3190	145 lm/W						
	18W	2610	145 lm/W						
KT-LED36PSHID-E26-8xx-D /G4	36W	5220	145 lm/W	120-277V	E26	N/A	>80	3000K, 4000K, or 5000K	150W MH
	27W	3915	145 lm/W						
	18W	2610	145 lm/W						
KT-LED36PSHID-EX39-8xx-D /G4	36W	5220	145 lm/W	120-277V	EX39	Yes	>80	3000K, 4000K, or 5000K	150W MH
	27W	3915	145 lm/W						
	18W	2610	145 lm/W						
KT-LED45PSHID-E26-8xx-D /G4	45W	6525	145 lm/W	120-277V	E26	N/A	>80	3000K, 4000K, or 5000K	175W MH
	36W	5220	145 lm/W						
	27W	3915	145 lm/W						
KT-LED45PSHID-EX39-8xx-D /G4	45W	6525	145 lm/W	120-277V	EX39	Yes	>80	3000K, 4000K, or 5000K	175W MH
	36W	5220	145 lm/W						
	27W	3915	145 lm/W						
KT-LED54PSHID-EX39-8xx-D /G4	54W	7830	145 lm/W	120-277V	EX39	Yes	>80	3000K, 4000K, or 5000K	200W MH
	45W	6525	145 lm/W						
	36W	5220	145 lm/W						
KT-LED63PSHID-EX39-8xx-D /G4	63W	9135	145 lm/W	120-277V	EX39	Yes	>80	3000K, 4000K, or 5000K	250W MH
	54W	7830	145 lm/W						
	45W	6525	145 lm/W						
KT-LED80PSHID-EX39-8xx-D /G4	80W	11600	145 lm/W	120-277V	EX39	Yes	>80	3000K, 4000K, or 5000K	320W MH
	63W	9135	145 lm/W						
	54W	7830	145 lm/W						
KT-LED100PSHID-EX39-8xx-D /G4	100W	14500	145 lm/W	120-277V	EX39	Yes	>80	3000K, 4000K, or 5000K	400W MH
	80W	11600	145 lm/W						
	63W	9135	145 lm/W						

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# Corn Cob

## Sensors



CATALOG NUMBER	DESCRIPTION	
KTS-MW1-12V-AUX	SmartPort LED microwave occupancy sensor	
KTS-PIR1-12V-AUX	SmartPort LED PIR occupancy / daylight sensor	
KTS-PS1-12V-AUX	SmartPort LED photocell daylight sensor	

Not for use with /G4 lamps.



Keystone has been family-owned and family-run since our founding in 1945.

**[ Three Generations of Leadership ]**



# A-Shape



## Ballast Bypass

### Features & Benefits

- Ideal LED lamp solution for both commercial retrofit and new construction applications, combining energy efficiency with enhanced aesthetics
- Reduces energy costs by 75% vs. legacy lamps
- Contains large heat sink for optimal heat dissipation
- UL Certified
- Energy Star (E26 base) and DLC (EX39 base) listed options
- 5-year warranty



RoHS Compliant

25,000 HOUR LIFETIME

5 YEAR WARRANTY

### Typical Applications



POST TOP



BOLLARD



SWAN FIXTURES

# A-Shape

### Commercial A23

### PERFORMANCE SERIES

CATALOG NUMBER	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DIMMABLE	DISTRIBUTION	DLC	CRI	AVAILABLE CCT
KT-LED25A23-0-E26-8xx	25W	3600	144 lm/W	120-277V	E26	No	330°	N/A	>80	3000K, 4000K, or 5000K
KT-LED25A23-0-EX39-8xx	25W	3590	143 lm/W	120-277V	EX39	No	330°	No	>80	3000K, 4000K, or 5000K

### Commercial A25

### PERFORMANCE SERIES

CATALOG NUMBER	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DIMMABLE	DISTRIBUTION	DLC	CRI	AVAILABLE CCT
KT-LED35A25-0-E26-8xx	35W	4850	139 lm/W	120-277V	E26	No	330°	N/A	>80	3000K, 4000K, or 5000K
KT-LED35A25-0-EX39-8xx	35W	4850	139 lm/W	120-277V	EX39	No	330°	No	>80	3000K, 4000K, or 5000K

# A-Shape - Dimmable



## Ballast Bypass

### Features & Benefits

- Redesigned LED lamp solution for both commercial retrofit and new construction applications
- Includes dimming on all models
- Reduces energy costs by 75% vs. legacy lamps
- Heavy-duty heat sink for optimal heat dissipation
- UL Certified
- Energy Star (E26 base) and DLC (EX39 base) listed options
- 5-year warranty



RoHS Compliant

25,000 HOUR LIFETIME

5 YEAR WARRANTY

### Typical Applications



POST TOP



BOLLARD



SWAN FIXTURES

# A-Shape - Dimmable

### Commercial A21

### PERFORMANCE SERIES

CATALOG NUMBER	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DIMMABLE	DISTRIBUTION	DLC	CRI	AVAILABLE CCT
KT-LED14A21-0-E26-8xx-DIM /G2	14W	1760	126 lm/W	120-277V	E26	Yes	340°	N/A	>80	2700K, 3000K, 4000K, or 5000K
KT-LED20A21-0-E26-8xx-DIM /G2	20W	2600	130 lm/W	120-277V	E26	Yes	340°	N/A	>80	2700K, 3000K, 4000K, or 5000K

### Commercial A23/PS25

### PERFORMANCE SERIES

CATALOG NUMBER	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DIMMABLE	DISTRIBUTION	DLC	CRI	AVAILABLE CCT
KT-LED25A23-0-E26-8xx-DIM /G2	24W	3200	133 lm/W	120-277V	E26	Yes	330°	N/A	>80	3000K, 4000K, or 5000K
KT-LED25A23-0-EX39-8xx-DIM /G2	24W	3200	133 lm/W	120-277V	EX39	Yes	330°	Yes	>80	3000K, 4000K, or 5000K

### Commercial A25/PS30

### PERFORMANCE SERIES

CATALOG NUMBER	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DIMMABLE	DISTRIBUTION	DLC	CRI	AVAILABLE CCT
KT-LED35A25-0-E26-8xx-DIM /G2	36W	5000	139 lm/W	120-277V	E26	Yes	330°	N/A	>80	3000K, 4000K, or 5000K
KT-LED35A25-0-EX39-8xx-DIM /G2	36W	5000	139 lm/W	120-277V	EX39	Yes	330°	Yes	>80	3000K, 4000K, or 5000K



# PAR

# PAR



## Ballast Bypass

### Features & Benefits

- Up to 75% energy savings compared to legacy equivalents
- Can be used in base-up or base-down position
- Rated for open and recessed fixtures
- Large metal heat sink for optimal heat dissipation
- THD: < 20%; power factor: > 0.90
- Universal input voltage (120-277V)
- Operating temperature range -4°F/-20°C to 113°F/45°C
- Ideal for recessed corridor and high-power flood lighting
- Suitable for dry and damp locations
- UL 1598C and 1993 compliant



RoHS Compliant

25,000 HOUR LIFETIME

5 YEAR WARRANTY

### Typical Applications



RECESSED DOWNLIGHTS



FLOOD & SPOT LIGHTING



SWAN FIXTURES

### Power Select

### PERFORMANCE SERIES

CATALOG NUMBER	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DIMMABLE	DISTRIBUTION	DLC	CRI	AVAILABLE CCT
KT-LED33PSPAR38-F-8xx	33W	4120	125 lm/W	120-277V	E26	No	40°	N/A	>80	3000K, 4000K, or 5000K
	25W	3350	134 lm/W							
	18W	2550	142 lm/W							

### Dedicated

### PERFORMANCE SERIES

CATALOG NUMBER	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DIMMABLE	DISTRIBUTION	DLC	CRI	AVAILABLE CCT
KT-LED18PAR38-F-8xx	18W	2100	114 lm/W	120-277V	E26	No	40°	N/A	>80	3000K, 4000K, or 5000K
KT-LED18PAR38-NF-8xx	18W	2100	114 lm/W	120-277V	E26	No	25°	N/A	>80	3000K, 4000K or 5000K

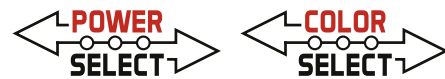
# Horizontal



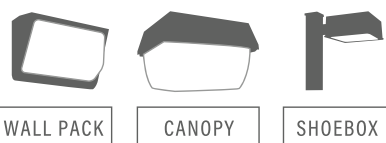
## Ballast Bypass

### Features & Benefits

- Ideal way to upgrade existing metal halide HID fixtures to LED
- Available with Keystone Power Select and Color Select technology
- 180° light output and rotatable base optimized for horizontal applications such as shoeboxes and wall packs
- Eliminates the need for legacy ballasts
- Instant startup
- UL Certified and DLC Listed



### Typical Applications



# Horizontal



### Power Select and Color Select

CATALOG NUMBER	SELECTABLE WATTAGE	SELECTABLE CCT	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DLC	CRI	METAL HALIDE EQUIVALENT
KT-LED27PSHID-H-E26-8CSB-D	27W	3000K	3995	148 lm/W	120-277V	E26	N/A	>80	100W MH
		4000K	4240	157 lm/W					
		5000K	4075	151 lm/W					
	18W	3000K	2770	154 lm/W					
		4000K	2880	160 lm/W					
		5000K	2810	156 lm/W					
	12W	3000K	1870	156 lm/W					
		4000K	1945	162 lm/W					
		5000K	1895	158 lm/W					
KT-LED27PSHID-H-EX39-8CSB-D	27W	3000K	3995	148 lm/W	120-277V	EX39	Yes	>80	100W MH
		4000K	4240	157 lm/W					
		5000K	4075	151 lm/W					
	18W	3000K	2770	154 lm/W					
		4000K	2880	160 lm/W					
		5000K	2810	156 lm/W					
	12W	3000K	1870	156 lm/W					
		4000K	1945	162 lm/W					
		5000K	1895	158 lm/W					
KT-LED45PSHID-H-E26-8CSB-D	45W	3000K	6525	145 lm/W	120-277V	E26	N/A	>80	175W MH
		4000K	6975	155 lm/W					
		5000K	6615	147 lm/W					
	36W	3000K	5510	153 lm/W					
		4000K	5725	159 lm/W					
		5000K	5580	155 lm/W					
	27W	3000K	4185	155 lm/W					
		4000K	4345	161 lm/W					
		5000K	4240	157 lm/W					
KT-LED45PSHID-H-EX39-8CSB-D	45W	3000K	6525	145 lm/W	120-277V	EX39	Yes	>80	175W MH
		4000K	6975	155 lm/W					
		5000K	6615	147 lm/W					
	36W	3000K	5510	153 lm/W					
		4000K	5725	159 lm/W					
		5000K	5580	155 lm/W					
	27W	3000K	4185	155 lm/W					
		4000K	4345	161 lm/W					
		5000K	4240	157 lm/W					
KT-LED63PSHID-H-EX39-8CSB-D	63W	3000K	8945	142 lm/W	120-277V	EX39	Yes	>80	250W MH
		4000K	9575	152 lm/W					
		5000K	9135	145 lm/W					
	54W	3000K	7720	143 lm/W					
		4000K	8045	149 lm/W					
		5000K	7830	145 lm/W					
	45W	3000K	6750	150 lm/W					
		4000K	7020	156 lm/W					
		5000K	6840	152 lm/W					
KT-LED80PSHID-H-EX39-8CSB-D	80W	3000K	10800	135 lm/W	120-277V	EX39	Yes	>80	320W MH
		4000K	11600	145 lm/W					
		5000K	11200	140 lm/W					
	63W	3000K	8630	137 lm/W					
		4000K	9260	147 lm/W					
		5000K	8945	142 lm/W					
	54W	3000K	7505	139 lm/W					
		4000K	8045	149 lm/W					
		5000K	7775	144 lm/W					
KT-LED110PSHID-H-EX39-8CSB-D	110W	3000K	14850	135 lm/W	120-277V	EX39	Yes	>80	400W MH
		4000K	15950	145 lm/W					
		5000K	15400	140 lm/W					
	95W	3000K	13015	137 lm/W					
		4000K	13965	147 lm/W					
		5000K	13490	142 lm/W					
	75W	3000K	10425	139 lm/W					
		4000K	11175	149 lm/W					
		5000K	10800	144 lm/W					

Continued on next page




# Horizontal



## Dedicated

CATALOG NUMBER	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DLC	CRI	AVAILABLE CCT	METAL HALIDE EQUIVALENT
KT-LED27HID-H-E26-8xx-D	27W	4100	152 lm/W	120-277V	E26	N/A	>80	4000K or 5000K	100W MH
KT-LED27HID-H-EX39-8xx-D	27W	4100	152 lm/W	120-277V	EX39	Yes	>80	4000K or 5000K	100W MH
KT-LED45HID-H-E26-8xx-D	45W	6400	142 lm/W	120-277V	E26	N/A	>80	4000K or 5000K	175W MH
KT-LED45HID-H-EX39-8xx-D	45W	6400	142 lm/W	120-277V	EX39	Yes	>80	4000K or 5000K	175W MH
KT-LED63HID-H-EX39-8xx-D	63W	9450	150 lm/W	120-277V	EX39	Yes	>80	4000K or 5000K	250W MH
KT-LED80HID-H-EX39-8xx-D /G3	80W	12000	150 lm/W	120-277V	EX39	Yes	>80	3000K, 4000K, or 5000K	320W MH
KT-LED110HID-H-EX39-8xx-D /G3	110W	16500	150 lm/W	120-277V	EX39	Yes	>80	3000K, 4000K, or 5000K	400W MH

## Sensors FOR STANDARD OPTIONS

CATALOG NUMBER	DESCRIPTION	
KTS-MW1-12V-AUX	SmartPort LED microwave occupancy sensor	
KTS-PIR1-12V-AUX	SmartPort LED PIR occupancy / daylight sensor	
KTS-PS1-12V-AUX	SmartPort LED photocell daylight sensor	

Not for use with /G4 lamps.



You want to see our products, try our products, test our products.

So we offer free samples. All you have to do is ask.

**[ That's Right. Free Samples ]**



# Multi-Directional



## Ballast Bypass

### Features & Benefits

- Multi-directional LED light source offers flexibility to optimize light output based on application demands
- Cost-efficient replacement for legacy metal halide lamps
- SmartPort compatible
- Eliminates the need for legacy ballasts
- Instant startup
- UL Certified and DLC Listed



### Typical Applications



LOW BAY/HIGH BAY



POST TOP



SHOEBOX

# Multi-Directional



### Dedicated

CATALOG NUMBER	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DLC	CRI	AVAILABLE CCT	METAL HALIDE EQUIVALENT
KT-LED70HID-ADJ-EX39-8xx-D	70W	10500	150 lm/W	120-277V	EX39	Yes	>80	3000K, 4000K, or 5000K	250W MH
KT-LED100HID-ADJ-EX39-8xx-D	100W	14000	140 lm/W	120-277V	EX39	Yes	>80	4000K or 5000K	400W MH

### Sensors

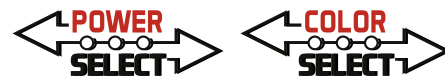
CATALOG NUMBER	DESCRIPTION	
KTS-MW1-12V-AUX	SmartPort LED microwave occupancy sensor	
KTS-PIR1-12V-AUX	SmartPort LED PIR occupancy / daylight sensor	
KTS-PS1-12V-AUX	SmartPort LED photocell daylight sensor	



# Vertical



## Ballast Bypass



### Features & Benefits

- Ideal way to upgrade existing metal halide HID fixtures to LED
- 180° light output optimized for vertical applications
- Cost-efficient replacement for legacy metal halide lamps
- Compatible with SmartPort sensors
- Eliminates the need for legacy ballasts
- Instant startup
- UL Certified and DLC Listed



### Typical Applications



LOW BAY/HIGH BAY

# Vertical



### Power Select and Color Select

CATALOG NUMBER	SELECTABLE WATTAGE	SELECTABLE CCT	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DLC	CRI	METAL HALIDE EQUIVALENT
KT-LED80PSHID-V-EX39-8CSB-D	80W	3000K	10560	132 lm/W	120-277V	EX39	Yes	>80	250W MH
		4000K	11700	146 lm/W					
		5000K	11400	143 lm/W					
	70W	3000K	9590	137 lm/W					
		4000K	10250	146 lm/W					
		5000K	10150	145 lm/W					
	60W	3000K	8340	139 lm/W					
		4000K	8780	146 lm/W					
		5000K	8820	147 lm/W					

### Dedicated





CATALOG NUMBER	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	DLC	CRI	AVAILABLE CCT	METAL HALIDE EQUIVALENT
KT-LED60HID-V-E26-8xx-D	60W	7850	131 lm/W	120-277V	E26	N/A	>80	4000K or 5000K	200W MH
KT-LED80HID-V-E26-8xx-D /G2	80W	10500	131 lm/W	120-277V	E26	N/A	>80	4000K or 5000K	250W MH

### Sensors FOR POWER AND COLOR SELECT MODELS

CATALOG NUMBER	DESCRIPTION	
KTS-MW3-12V-PKO	Screw-in microwave sensor, preset for 10 min hold time, infinite standby time at 50% dim, daylight disabled	
KTS-MW3-12V-PKO /A	Screw-in microwave sensor, preset for 1 min hold time, 3 min standby time at 30% dim, daylight disabled	
KTS-MW3-12V-PKO /B	Screw-in microwave sensor, preset for 5 min hold time, 10 min standby time at 10% dim, daylight disabled	
KTSL-FC3-12V-PKO-PIR	Bluetooth mesh screw-in PIR occupancy sensor with built-in fixture controller for SmartLoop system	
KTSL-FC4-12V-PKO	Bluetooth mesh screw-in fixture controller for SmartLoop system	

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# Accessories

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-150-480-277-OC	480V to 277V step-down auto-transformer, open core	
KTAT-250-480-277 /A	480V to 277V step-down auto-transformer	



Keystone offers complimentary lighting layout services for our products. Fill out the form, request a layout, we'll get to work.

## [ Detailed Lighting Designs ]



# Directional



## Type A - Ballast Compatible

### Features & Benefits

- Plug-and-play technology with Keystone SmartDrive lamps; LED lamps run on existing CFL ballast
- Available Keystone Color Select technology on select models
- Horizontal and vertical orientations allow for use in a wide variety of applications
- Compatible with most existing CFL ballasts
- Replaces conventional CFL 26W, 32W, and 42W G24q lamps



### Typical Applications



RECESSED DOWNLIGHTS

# Directional

### CFL LED Replacement Lamps | Color Select

### SMARTDRIVE LED

CATALOG NUMBER	LAMP WATTAGE	SYSTEM WATTAGE	SELECTABLE CCT	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	ORIENTATION	DLC	CRI
KT-LED94P-H-8CSE-S	9.5W	11W	3000K	960	101 lm/W	Ballast Dependent	G24q	Horizontal	Yes	>80
			3500K	1020	107 lm/W					
			4000K	1050	111 lm/W					
KT-LED94P-H-8CSI-S	9.5W	11W	2700K	920	97 lm/W	Ballast Dependent	G24q	Horizontal	Yes	>80
			4000K	1020	107 lm/W					
			5000K	1050	111 lm/W					
KT-LED94P-V-8CSE-S	9.5W	11W	3000K	1100	116 lm/W	Ballast Dependent	G24q	Vertical	Yes	>80
			3500K	1120	118 lm/W					
			4000K	1150	121 lm/W					
KT-LED94P-V-8CSI-S	9.5W	11W	2700K	1000	105 lm/W	Ballast Dependent	G24q	Vertical	Yes	>80
			4000K	1120	118 lm/W					
			5000K	1150	121 lm/W					

### CFL LED Replacement Lamps | Dedicated

### SMARTDRIVE LED

CATALOG NUMBER	LAMP WATTAGE	SYSTEM WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	ORIENTATION	DLC	CRI	AVAILABLE CCT
KT-LED94P-H-8xx-S	9W	11W	1050	117 lm/W	Ballast Dependent	G24q	Horizontal	Yes	>80	2700K, 3000K, 3500K, 4000K, or 5000K
KT-LED94P-V-8xx-S	9W	11W	1050	117 lm/W	Ballast Dependent	G24q	Vertical	Yes	>80	2700K, 3000K, 3500K, 4000K, or 5000K

# Directional



## Ballast Bypass

### Features & Benefits

- Available horizontal and vertical orientation types optimize light output when retrofitting existing CFL fixtures
- Bypasses the existing ballast with Keystone DirectDrive technology
- Reduces SKUs with Keystone Color Select technology
- Saves on energy costs by 50% vs. legacy lamps
- G24d 2-pin can be used in G24q 4-pin applications for ballast bypass
- UL Certified



# Directional

### CFL LED Replacement Lamps | Color Select



CATALOG NUMBER	WATTAGE	SELECTABLE CCT	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	ORIENTATION	DLC	CRI	LEGACY REPLACEMENT
KT-LED82P-H-8CSE-D	8.5W	3000K	960	113 lm/W	120-277V	G24d	Horizontal	N/A	>80	26W
		3500K	1020	120 lm/W						
		4000K	1050	124 lm/W						
KT-LED82P-H-8CSI-D	8.5W	2700K	920	108 lm/W	120-277V	G24d	Horizontal	N/A	>80	26W
		4000K	1050	124 lm/W						
		5000K	1050	124 lm/W						
KT-LED82P-V-8CSE-D	8.5W	3000K	1100	129 lm/W	120-277V	G24d	Vertical	N/A	>80	26W
		3500K	1120	132 lm/W						
		4000K	1150	135 lm/W						
KT-LED82P-V-8CSI-D	8.5W	2700K	1000	118 lm/W	120-277V	G24d	Vertical	N/A	>80	26W
		4000K	1150	135 lm/W						
		5000K	1150	135 lm/W						

### CFL LED Replacement Lamps | Dedicated



CATALOG NUMBER	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	ORIENTATION	DLC	CRI	AVAILABLE CCT	LEGACY REPLACEMENT
KT-LED62P-HS-8xx-D	6W	550	92 lm/W	120-277V	Gx23	Horizontal Slim	N/A	>80	2700K or 4000K	13-18W
KT-LED62P-H-8xx-D	6W	550	92 lm/W	120-277V	Gx23	Horizontal	N/A	>80	2700K, 3000K, 3500K, 4000K, or 5000K	13-18W
KT-LED82P-H-8xx-D	8W	950	119 lm/W	120-277V	G24d	Horizontal	N/A	>80	2700K, 3000K, 3500K, 4000K, or 5000K	26W
KT-LED162P-H-8xx-D	16W	1900	119 lm/W	120-277V	G24d	Horizontal	N/A	>80	2700K, 3000K, 3500K, 4000K, or 5000K	42W
KT-LED82P-EV-8xx-D	8W	950	119 lm/W	120-277V	G24d	Extended Vertical	N/A	>80	2700K, 3000K, 3500K, 4000K, or 5000K	26W
KT-LED82P-V-8xx-D	8W	950	119 lm/W	120-277V	G24d	Vertical	N/A	>80	2700K, 3000K, 3500K, 4000K, or 5000K	26W
KT-LED162P-V-8xx-D	16W	2000	125 lm/W	120-277V	G24d	Vertical	N/A	>80	2700K, 3000K, 3500K, 4000K, or 5000K	42W

### PLL CFL LED Replacement Lamps | Dedicated



CATALOG NUMBER	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	ORIENTATION	DLC	CRI	AVAILABLE CCT	LEGACY REPLACEMENT
KT-LED8PLL-9GC-8xx-D	8.5W	980	115 lm/W	120-277V	2G11	Horizontal	N/A	>80	3000K, 3500K, 4000K, or 5000K	18W
KT-LED10PLL-12GC-8xx-D	10W	1250	125 lm/W	120-277V	2G11	Horizontal	N/A	>80	3000K, 3500K, 4000K, or 5000K	24W
KT-LED16PLL-16GC-8xx-D	16W	2000	125 lm/W	120-277V	2G11	Horizontal	N/A	>80	3000K, 3500K, 4000K, or 5000K	36W
KT-LED17PLL-22GC-8xx-D /G2	17W	2200	129 lm/W	120-277V	2G11	Horizontal	Yes	>80	3000K, 3500K, 4000K, or 5000K	40W



# Omni-Directional



## Ballast Bypass

### Features & Benefits

- Omni-directional light output offers ultimate flexibility for use in all applications, regardless of existing lamp orientation
- Bypasses the existing ballast with Keystone DirectDrive technology
- Saves on energy costs by 50% vs legacy lamps
- G24d 2-pin can be used in G24q 4-pin applications for ballast bypass
- UL Certified



# Omni-Directional

### LED CFL Replacement Lamps | Omni-Directional Orientation

**DirectDrive LED**

CATALOG NUMBER	WATTAGE	LUMENS	EFFICACY	INPUT VOLTAGE	BASE	ORIENTATION	DLC	CRI	AVAILABLE CCT	LEGACY REPLACEMENT
KT-LED62P-0-8xx-D	6W	600	100 lm/W	120-277V	Gx23	Omnidirectional	N/A	>80	2700K, 3000K, 3500K, 4000K, or 5000K	13-18W
KT-LED82P-0-8xx-D	8W	800	100 lm/W	120-277V	G24d	Omnidirectional	N/A	>80	2700K, 3000K, 3500K, 4000K, or 5000K	26W

# T5, T8, T12, Circline



## Features & Benefits

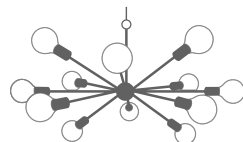
- Low mercury content
- TCLP compliant, ROHS compliant
- 3-year system warranty (with Keystone ballasts) / 2-year standard warranty



## Typical Applications



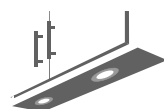
SWAN FIXTURES



DECORATIVE ACCENT LIGHTING



GENERAL LIGHTING



UNDERCABINET LIGHTING

# T5, T8, T12, Circline

## High Performance T8 Linear | Medium Bi-Pin | G13 Base

CATALOG NUMBER	NOMINAL WATTAGE	NOMINAL LENGTH	AVAILABLE CCT	CRI	INITIAL LUMENS	MEAN LUMENS	RATED AVERAGE LIFE		LUMEN MAINTENANCE
							3-HR/START	12-HR/START	
KTL-F17T8-8xx-HP	17W	24"	3500K, 4100K or 5000K	85	1380	1300	30,000 Hours	36,000 Hours	94%
KTL-F25T8-8xx-HP	25W	36"	3500K, 4100K or 5000K	85	2275	2140	30,000 Hours	36,000 Hours	94%
KTL-F25T8ES-8xx-HP	25W	48"	3500K, 4100K or 5000K	85	2500	2350	30,000 Hours	36,000 Hours	94%
KTL-F28T8ES-8xx-HP	28W	48"	3500K, 4100K or 5000K	85	2725	2560	30,000 Hours	36,000 Hours	94%
KTL-F32T8-8xx-HP	32W	48"	3500K, 4100K or 5000K	85	3100	2915	30,000 Hours	36,000 Hours	94%
KTL-F32T8-8xx-XHP	32W	48"	3500K, 4100K or 5000K	85	3200	3010	30,000 Hours	36,000 Hours	94%
KTL-F32T8-8xx-XL	32W	48"	3500K, 4100K or 5000K	85	3100	2915	42,000 Hours	48,000 Hours	94%

## High Efficiency T5 Linear | Miniature Bi-Pin | G5 Base

CATALOG NUMBER	NOMINAL WATTAGE	NOMINAL LENGTH	AVAILABLE CCT	CRI	INITIAL LUMENS	MEAN LUMENS	RATED AVERAGE LIFE		LUMEN MAINTENANCE
							3-HR/START	12-HR/START	
KTL-F14T5-8xx-HE	14W	24"	3500K, 4100K or 5000K	85	1350	1265	24,000 Hours	30,000 Hours	94%
KTL-F21T5-8xx-HE	21W	36"	3500K, 4100K or 5000K	85	2200	2060	24,000 Hours	30,000 Hours	94%
KTL-F28T5-8xx-HE	28W	48"	3500K, 4100K or 5000K	85	2900	2725	24,000 Hours	30,000 Hours	94%

## High Output T5 Linear | Miniature Bi-Pin | G5 Base

CATALOG NUMBER	NOMINAL WATTAGE	NOMINAL LENGTH	AVAILABLE CCT	CRI	INITIAL LUMENS	MEAN LUMENS	RATED AVERAGE LIFE		LUMEN MAINTENANCE
							3-HR/START	12-HR/START	
KTL-F49T5-8xx-HO	49W	48"	3500K, 4100K or 5000K	85	4900	4600	24,000 Hours	30,000 Hours	94%
KTL-F54T5-8xx-HO	54W	48"	3500K, 4100K or 5000K	85	5000	4700	24,000 Hours	30,000 Hours	94%

## T12 Linear | 2012 DOE Compliant | Medium Bi-Pin | G13 Base

CATALOG NUMBER	NOMINAL WATTAGE	NOMINAL LENGTH	AVAILABLE CCT	CRI	INITIAL LUMENS	MEAN LUMENS	RATED AVERAGE LIFE		LUMEN MAINTENANCE
							3-HR/START	12-HR/START	
KTL-F40T12-841-CWX	40W	48"	4100K	89	2500	2250	24,000 Hours	30,000 Hours	90%

## T9 Circular | 4-Pin | G10q Base

CATALOG NUMBER	NOMINAL WATTAGE	DIAMETER	AVAILABLE CCT	CRI	INITIAL LUMENS	MEAN LUMENS	3-HR/START	LUMEN MAINTENANCE
KTL-FC8T9-DL	22W	8"	6500K	76	980	805	10,000 Hours	82%
KTL-FC12T9-CW	32W	12"	4100K	60	1930	1582	10,000 Hours	82%
KTL-FC12T9-DL	32W	12"	6500K	76	1675	1373	10,000 Hours	82%
KTL-FC16T9-CW	40W	16"	4100K	60	2950	2420	10,000 Hours	82%
KTL-FC16T9-DL	40W	16"	6500K	76	2450	2010	10,000 Hours	82%



**Features & Benefits**

- Low-pressure mercury lamps designed to emit shortwave UV-C radiation, proven to effectively inactivate various tested pathogens
- For use in fixtures specifically designed for disinfection purposes using UV-C 254 nm light sources
- Industry standard dimensions allow for use in a wide range of new and replacement applications
- Emits shortwave UV-C radiation with a peak at 253.7 nm
- Special glass filters out 185 nm ozone-forming radiation
- Low mercury content
- 1-year warranty
- *To reference our UV-C Lamp Pairing Guide, use QR code or visit [Keystonetech.com/UVCPairingGuide](http://Keystonetech.com/UVCPairingGuide)*



UV-C RISK GROUP 3 (PER ANSI/IESNA RP-27.3-96)  
WARNING: THESE LAMPS EMIT HIGH POWER UV RADIATION. AVOID EYE AND SKIN EXPOSURE TO UNSHIELDED PRODUCT. FOLLOW ALL INSTALLATION INSTRUCTIONS AND USER MANUALS. THIS PRODUCT CAN CAUSE INJURY IF IMPROPERLY USED. DO NOT ATTEMPT TO LOOK AT THE LAMP DURING OPERATION.

RoHS  
Compliant

**Linear T5 | Double-Ended Bi-Pin**

**PUREFIT**

CATALOG NUMBER	LENGTH		BASE TYPE	NOMINAL POWER	NOMINAL VOLTAGE	NOMINAL LAMP CURRENT	PEAK WAVE LENGTH	AVERAGE LIFETIME	NOMINAL UV OUTPUT
	MM	INCHES							
KTL-G4T5-254-DE	135	5.31	G5	4.5W	28V	170mA	254nm	>8000 hrs	0.9W
KTL-G6T5-254-DE	212	8.35	G5	6W	42V	160mA	254nm	>8000 hrs	1.6W
KTL-G8T5-254-DE	288	11.34	G5	8W	56V	150mA	254nm	>8000 hrs	2.1W

**Linear T8 | Double-Ended Bi-Pin**

**PUREFIT**

CATALOG NUMBER	LENGTH		BASE TYPE	NOMINAL POWER	NOMINAL VOLTAGE	NOMINAL LAMP CURRENT	PEAK WAVE LENGTH	AVERAGE LIFETIME	NOMINAL UV OUTPUT
	MM	INCHES							
KTL-G15T8-254-DE	436	17.17	G13	15W	51V	340mA	254nm	>8000 hrs	4.7W
KTL-G30T8-254-DE	894	35.20	G13	30W	100V	370mA	254nm	>8000 hrs	11.2W
KTL-G36T8-254-DE	1199	47.20	G13	36W	103V	440mA	254nm	>8000 hrs	15.5W
KTL-G55T8-254-H0-DE	894	35.20	G13	55W	87V	780mA	254nm	>8000 hrs	17W
KTL-G75T8-254-H0-DE	1199	47.20	G13	75W	110V	850mA	254nm	>8000 hrs	26W
KTL-G95T8-254-H0-DE	1500	59.06	G13	95W	124V	620mA	254nm	>8000 hrs	33W

**Linear T5 | Single-Ended 4-Pin**

**PUREFIT**

CATALOG NUMBER	LENGTH		BASE TYPE	NOMINAL POWER	NOMINAL VOLTAGE	NOMINAL LAMP CURRENT	PEAK WAVE LENGTH	AVERAGE LIFETIME	NOMINAL UV OUTPUT
	MM	INCHES							
KTL-G16T5-254-4P	317	12.48	G10q	16W	37V	425mA	254nm	>8000 hrs	4.3W
KTL-G17T5-254-4P	357	14.06	G10q	17W	51V	425mA	254nm	>8000 hrs	5.7W
KTL-G22T5-254-4P	436	17.17	G10q	21W	62V	425mA	254nm	>8000 hrs	7.3W
KTL-G36T5-254-4P	843	33.19	G10q	40W	120V	425mA	254nm	>8000 hrs	15W
KTL-G150T5-254-H0-4P	1554	61.18	G10q	150W	220V	800mA	254nm	>8000 hrs	45W

**Compact | 2-Pin**

**PUREFIT**

CATALOG NUMBER	LENGTH		BASE TYPE	NOMINAL POWER	NOMINAL VOLTAGE	NOMINAL LAMP CURRENT	PEAK WAVE LENGTH	AVERAGE LIFETIME	NOMINAL UV OUTPUT
	MM	INCHES							
KTL-G5PLS-254-G23	85	3.35	G23	5W	34V	180mA	254nm	>8000 hrs	1.1W
KTL-G9PLS-254-G23	145	5.71	G23	9W	60V	170mA	254nm	>8000 hrs	2.4W
KTL-G13PLS-254-GX23	165	6.50	GX23	13W	60V	290mA	254nm	>8000 hrs	3.4W

**Long Compact | 4-Pin**

**PUREFIT**

CATALOG NUMBER	LENGTH		BASE TYPE	NOMINAL POWER	NOMINAL VOLTAGE	NOMINAL LAMP CURRENT	PEAK WAVE LENGTH	AVERAGE LIFETIME	NOMINAL UV OUTPUT
	MM	INCHES							
KTL-G18PLL-254-2G11	217	8.54	2G11	18W	60V	370mA	254nm	>8000 hrs	5.8W
KTL-G36PLL-254-2G11	410	16.14	2G11	36W	105V	440mA	254nm	>8000 hrs	12W
KTL-G55PLL-254-2G11	530	20.87	2G11	55W	103V	540mA	254nm	>8000 hrs	18W
KTL-G95PLL-254-H0-2G11	530	20.87	2G11	95W	100V	950mA	254nm	>8000 hrs	33W



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