



SINCE 1945

KEYSTONE

LIGHT MADE EASY

S SMART
CURRENT

CONSTANT CURRENT PROGRAMMABLE LED DRIVERS

JANUARY 2018

SMART CURRENT

CONSTANT CURRENT PROGRAMMABLE LED DRIVERS

PRODUCT FEATURES

- Programmable output current via Keystone's SmartCurrent cradle (KTLD-SC-PGMR-1)
- Meets FCC Part 15 (Class B) consumer limits
- Short circuit overload and open load protection
- Dimmable with 0-10V dimmer (down to 1% at max. output current)
- Auxiliary power: 12Vdc; 200mA max.
- THD: < 20%
- Input Frequency: 50/60 Hz



SmartCurrent Cradle

Catalog No. KTLD-SC-PGMR-1

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

PROGRAMMING FEATURES

- Drive current (10 mA increments)
- Minimum dimming level (1%, 3%, 5%, 7%, or 10%)
- Dimming curve (linear, log, inverse log, or square-log)
- Minimum dimming voltage (1V, 1.5V, or 2V)
- Maximum dimming voltage (7V, 8V, or 9V)
- Dim-to-off voltage (0.8V, 1V, 1.2V, or N/A)
- Thermal foldback temperature (75°C/167°F, 80°C/176°F, 85°C/185°F, or 90°C/194°F)

Super fast programming in batch mode!

Simply preset your specs and sync each driver in just a few seconds without additional clicks.

ELECTRICAL SPECIFICATIONS

Input Voltage Range	120-277Vac ±10%
Frequency	50/60 Hz
Power Factor	>0.9 under 120~277Vac input with 80~100% load condition (for all output currents)
THD	< 20% under 120~277Vac input with 80~100% load condition (for all output currents)
Load Regulation	± 2%
Line Regulation	± 1%
Output Tolerance	± 5% at full load condition
Turn-On Delay Time	< 2 seconds at full load condition
Overshoot	< 10% at full load condition
No Load Power Consumption	< 2W
Ripple and Noise (pk-pk)	< 3%
Withstand Voltage	Input to output, 2,800Vdc, 2mA
Leakage Current	Maximum 0.5mA at 277Vac, 60Hz input
Protection	<ul style="list-style-type: none"> • Over Voltage Protection: Hiccup mode. Protection will trigger when load voltage exceeds specified output voltage and will auto recover after the fault mode is removed. • Over Current Protection: Hiccup mode. Protection will trigger when load current exceeds specified output current and will auto recover after the fault mode is removed. • Short Circuit Protection: Hiccup mode. Protection will trigger when short circuit occurs and will auto recover after the fault mode is removed. • Over Temperature Protection: Protection will trigger when driver overheats and auto-recover when cooled down.

WHAT'S NEEDED? A SmartCurrent programmable LED driver, the SmartCurrent Cradle, and a computer

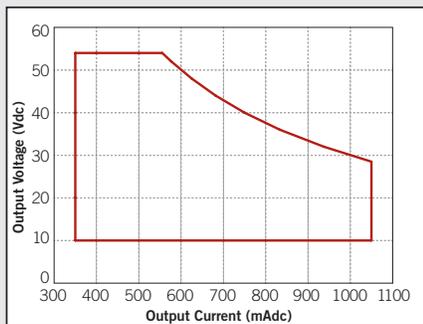


PRODUCT SPECIFICATIONS

Catalog Number	Max. Output Power	Max. Input Current	Output Current	Output Voltage	OCV	Typical Efficiency at 120V	Typical Efficiency at 240V	Typical Efficiency at 277V	Remote Mounting Distance (#18 AWG)	Class 2	
										US	CAN
KTLD-30-UV-SC1050-56-VDIM-U7	30W	0.31A @120V 0.17A @240V 0.15A @277V	350-1050mA	10-56V	60V	86%	86%	86%	35 ft.	Yes	No
KTLD-50-UV-SC1400-56-VDIM-U7	50W	0.52A @120V 0.28A @240V 0.24A @277V	470-1400mA	10-56V	60V	86%	86%	86%	26 ft.	Yes	No
KTLD-85-UV-SC2600-56-VDIM-U4	85W	0.89A @120V 0.44A @240V 0.38A @277V	860-2600mA	10-56V	60V	86%	86%	86%	24 ft.	Yes	No

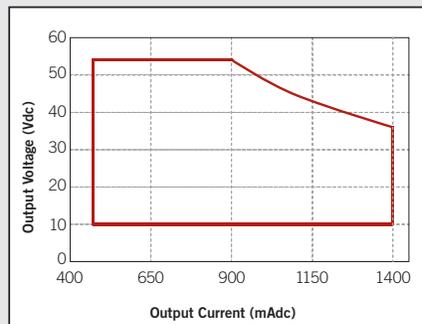
LED DRIVER OUTPUT WINDOW

30W



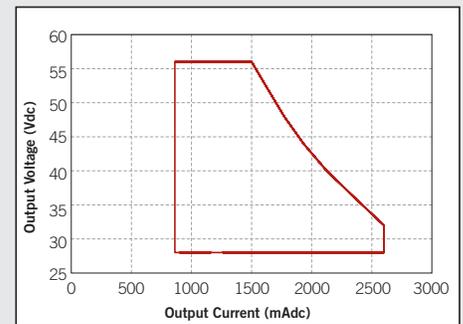
Note: Driver is in Constant Power mode from 550mA to 1050mA.

50W



Note: Driver is in Constant Power mode from 900mA to 1400mA.

85W



Note: Driver is in Constant Power mode from 1500mA to 2600mA.

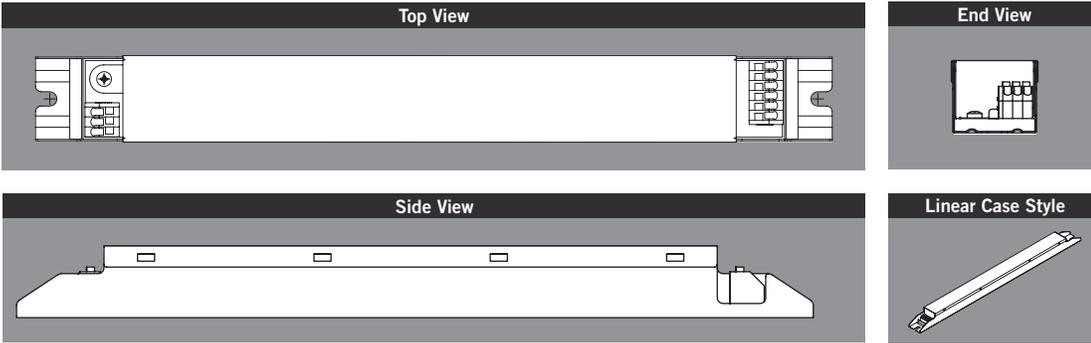
SAFETY AND EMC COMPLIANCE

UL/cUL	UL 8750
CE	EN61347-1, EN61347-2-13
FCC, 47CFR Part 15	ANSI C63.4:2009 Class B (Consumer Limit)
EN61000-3-2	Harmonic Current Emissions Class C

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-20°C/-4°F to 50°C/122°F
Storage Temperature	-40°C/-40°F to 85°C/185°F
Humidity	5% to 95%
Life Rating	85,000 hours at 120Vac input, 100% load and 60°C case temperature
Maximum Case Temperature	90°C/194°F

PHYSICAL SPECIFICATIONS



MEASUREMENTS

Wattage	Case Style	Length	Width	Height	Mounting	Case Material
30W	U7	11.02"	1.20"	1.00"	10.63"	Metal
50W	U7	11.02"	1.20"	1.00"	10.63"	Metal
85W	U4	16.89"	1.18"	1.00"	16.02"	Metal

WIRING SPECIFICATIONS

Ground	Green	Blue	LED load, negative (-)
		Red	LED load, positive (+)
Neutral	White	Orange	Programming and bluetooth accessories
		Yellow	Auxiliary 12Vdc output, positive (+)
Live	Black	Gray	Dimming and auxiliary output, negative (-)
		Purple	Dimming, positive (+)

All connections via plug in terminal block, 14-20 GA

