



KTLD-85-UV-SC2600-56-VDIM-U4

CONSTANT CURRENT PROGRAMMABLE LED DRIVER

DESCRIPTION

Class P FC RoHS Compliant







LED Driver | 85W | 120 -277V Input | 860 -2600mA Programmable Output Current

TOTAL POWER: 85W	OUTPUT CURRENT: 860 –2600mA
INPUT VOLTAGE: 120 -277Vac ±10%	DIMMING: 0-10V
INPUT FREQUENCY: 50/60 Hz	WARRANTY: 10 year limited



PRODUCT FEATURES

- 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)
- THD: < 20%
- Auxiliary Power: 12Vdc; 200mA max.

- -40°C/-40°F to 50°C/122°F operating temperature
- 90°C/194°F maximum case temperature
- Input frequency: 50/60 Hz
- Programmable output current via Keystone supplied programming jig
- · Class A Sound Rating

PROGRAMMING FEATURES

- Drive current (10mA increments)
- Minimum dimming level (1%, 3%, 5%, 7%, or 10%)
- Dimming curve (linear, log, inverse log, or square-law)
- 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)

WHAT'S NEEDED?

A SmartCurrent Programmable LED Driver, the SmartCurrent Cradle, and a computer.





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)
Inrush Current	80A @277V
Max. Input Current	0.89A @120V, 0.44A @240V, and 0.38A @277V
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	< 0.75 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	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 and will auto recover after the fault mode is removed. Over Temperature Protection: Protection will trigger when driver overheats and auto-recovery when cooled down.





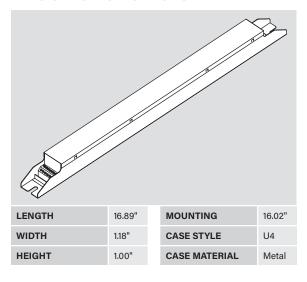
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PRODUCT SPECIFICATIONS

Max. Output	Output	Output Output Output Voltage	ocv	Typical Efficiency at 120V	Typical Efficiency at 240V	Typical Efficiency at 277V	Remote Mounting Distance (#18 AWG)	Class 2	
Power	Current							US	Canada
85W	860-2600mA	10-56V	60V	85%@ 2.6A, 33Vdc 87%@ 0.86A, 56Vdc	87%@ 2.6A, 33Vdc 87%@ 0.86A, 56Vdc	87%@ 2.6A, 33Vdc 87%@ 0.86A, 56Vdc	24 ft.	✓	

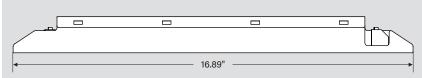
PHYSICAL SPECIFICATIONS



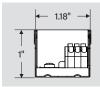
TOP VIEW



FRONT VIEW

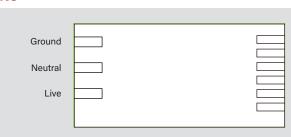


SIDE VIEW



WIRING SPECIFICATIONS

INPUT	Terminal Block
OUTPUT	Terminal Block
DIMMING	Terminal Block



VO (-): LED load, negative (-)BTIN

VO (+): LED load, positive (+)

PRG/BTIN: For programming and bluetooth accessories

Aux 12Vdc (+): Auxiliary 12Vdc output, positive (+)

accessories

RTN: Dimming and auxiliary output, negative (-) accessories

Dimming (+): Dimming, positive (+)





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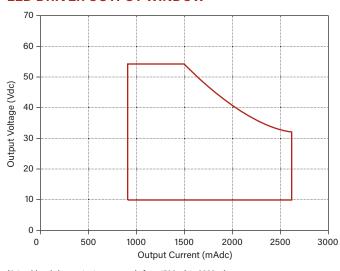
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40°C/-4°F to 50°C/122°F
Storage Temperature	-40°C/-40°F to 85°C/185°F
Humidity	5% to 95%
MTBF	209,100 hours at 40°C/104°F ambient (~70°C/~94°F case temperature)
Life Rating	85,000 hours at 120Vac input, 100% load and 60°C/140°F case temperature
Maximum Case Temperature	90°C/194°F
Maximum Case Temperature (tc) for 5-Year Warranty	75°C/167°F

SAFETY AND EMC COMPLIANCE

UL/cUL	UL 8750, Class P, Type HL, UL1310 Class
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

LED DRIVER OUTPUT WINDOW



LIFETIME VS CASE TEMPERATURE



Note: driver is in constant power mode from 1500mA to 2600mA.

ORDERING INFORMATION

ORDER CODE	PACKAGING STYLE	PACK QUANTITY	ITEM STATUS
KTLD-85-UV-SC2600-56-VDIM-U4-CP	Carton Pack	TBD	Quick Ship

CATALOG NUMBER BREAKDOWN

KTLD-85-UV-SC2600-56-VDIM-U4-CP

- 1 Keystone Technologies LED Driver
- 2 Max. Output Wattage
- 3 120-277V Input
- 4 Smart Current
- 5 Max. Output Current
- 6 Max. Output Voltage
- 7 0-10V Dimming
- 8 Case Style
- 9 Packaging Style