



KTLD-30-UV-SC1050-56-VDIM-U7

CONSTANT CURRENT PROGRAMMABLE LED DRIVER

DESCRIPTION

LED Driver | 30W | 120-277V Input | 350-1050mA Programmable Output Current

Class P **5 YEAR WARRANTY**

TOTAL POWER: 30W	OUTPUT CURRENT: 350-1050mA
INPUT VOLTAGE: 120-277Vac $\pm 10\%$	DIMMING: 0-10V
INPUT FREQUENCY: 50/60 Hz	WARRANTY: 5 Years



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 (.8V, 1V, 1.2V, or N/A)
- Thermal Foldback Temperature (75°C, 80°C, 85°C, or 90°C)

WHAT'S NEEDED? A SmartCurrent Programmable LED Driver, the SmartCurrent Cradle, and a computer.



ELECTRICAL SPECIFICATIONS

Input Voltage Range	120-277Vac $\pm 10\%$
Frequency	50/60 Hz
Power Factor	>0.9 under 120~277Vac Input with 80~100% Load Condition (For All Output Currents)
Inrush Current	10A @120V
Max. Input Current	0.31A @120V, 0.17A @240V and 0.15A @277V
THD	< 20% under 120~277Vac input with 80~100% load condition (For All Output Currents)
Load Regulation	$\pm 2\%$
Line Regulation	$\pm 1\%$
Output Tolerance	$\pm 5\%$ at Full Load Condition
Turn-On Delay Time	< 2 Seconds at Full Load Condition
Overshoot	< 10% at Full Load Condition
No Load Power Consumption	< 1.5W
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 exceed specified output voltage and will auto recover after the fault mode is removed. • Over Current Protection: Hiccup mode. Protection will trigger when load current exceed 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 overheat and auto-recovery when cooled down.



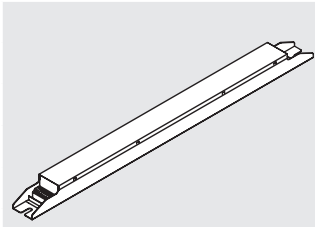
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PRODUCT SPECIFICATIONS

Max. Output Power	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	Canada
30W	350-1050mA	10-56V	60V	87%	86%	86%	35 ft.	3	

PHYSICAL SPECIFICATIONS

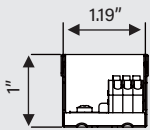


LENGTH	11.02"
WIDTH	1.20"
HEIGHT	1.00"
MOUNTING	10.63"
CASE STYLE	U7
CASE MATERIAL	Metal

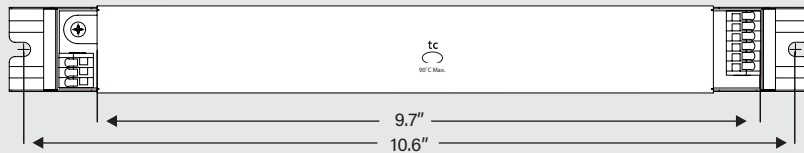
WIRING SPECIFICATIONS

INPUT	Terminal Block
OUTPUT	Terminal Block
DIMMING	Terminal Block

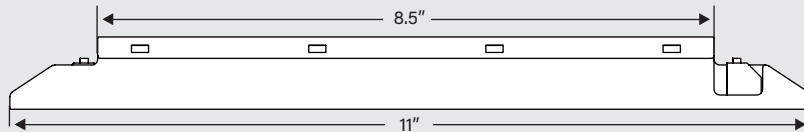
Side View



Top View



Top View



Wiring

Ground			VO (-): LED load, negative (-) BTIN
Neutral			VO (+): LED load, positive (+)
Live			PRG/BTIN: For programming and bluetooth accessories
			Aux 12Vdc (+): Auxiliary 12Vdc output, positive (+) accessories
			RTN: Dimming and auxiliary output, negative (-) accessories
			Dimming (+): Dimming, positive (+)

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 to 50°C
Storage Temperature	-40 to 85°C
Humidity	5% to 95%
MTBF	397,500 hours at 40°C ambient (~70°C Case temp)
Life Rating	85,000 hours at 120Vac input, 100% load and 60°C case temperature



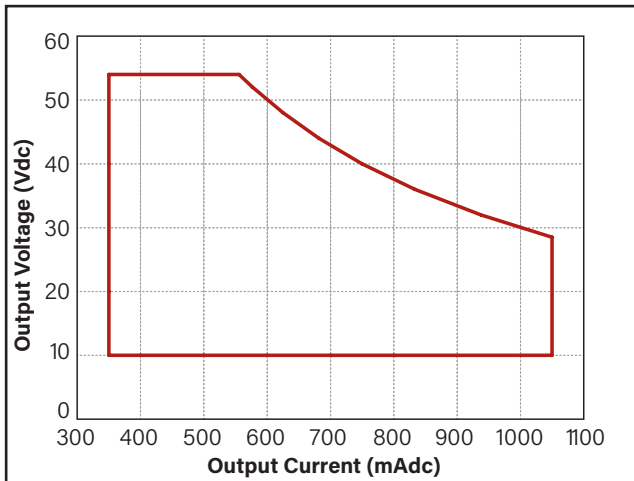
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SAFETY AND EMC COMPLIANCE

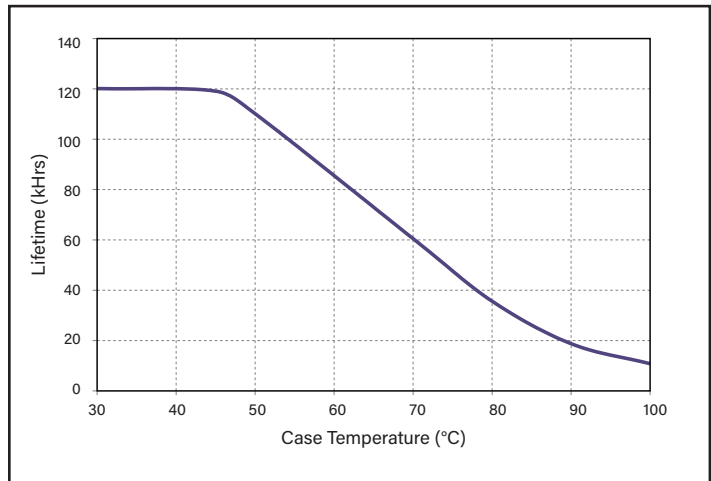
UL/cUL	UL 8750, Class P, Type HL, UL1310 Class 2
CE	EN61347-1, EN61347-2-13
FCC, 47CFR Part 15	ANSI C63.4:2009 Class B (Consumer Limit)
EN61000-3-2	Harmonic Current Emissions Class C

LED DRIVER OUTPUT WINDOW



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

LIFETIME VS CASE TEMPERATURE



ORDERING INFORMATION

Order Code	Packaging Style	Pack Quantity	Item Status
KTLD-30-UV-SC1050-56-VDIM-U7-CP	Carton Pack	TBD	Quick Ship

CATALOG NUMBER BREAKDOWN

KTLD-30-UV-SC1050-56-VDIM-U7-CP

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- 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