



# KTLD-100-UV-SC3000-56-VDIM-U4

## CONSTANT CURRENT PROGRAMMABLE LED DRIVER

### DESCRIPTION

LED Driver | 100W | 120–277V Input | 1500–3000mA Programmable Output Current

<b>TOTAL POWER:</b> 100W	<b>OUTPUT CURRENT:</b> 1500–3000mA
<b>INPUT VOLTAGE:</b> 120–277Vac ±10%	<b>DIMMING:</b> 0–10V
<b>INPUT FREQUENCY:</b> 50/60 Hz	<b>WARRANTY:</b> 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)
- Auxiliary Power: 12Vdc; 200mA max.
- THD: <20%
- -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

### 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

<b>Input Voltage Range</b>	120–277Vac ±10%
<b>Frequency</b>	50/60 Hz
<b>Power Factor</b>	>0.9 under 120–277Vac Input with 80–100% load condition (for all output currents)
<b>Inrush Current</b>	TBD
<b>Max. Input Current</b>	TBD
<b>THD</b>	<20% under 120–277Vac input with 80–100% load condition (for all output currents)
<b>Load Regulation</b>	± 2%
<b>Line Regulation</b>	± 1%
<b>Output Tolerance</b>	± 5% at full load condition
<b>Turn-On Delay Time</b>	<0.75 seconds at full load condition
<b>Overshoot</b>	<10% at full load condition
<b>No Load Power Consumption</b>	<2W
<b>Ripple and Noise (pk-pk)</b>	<3%
<b>Withstand Voltage</b>	Input to output, 2,800Vdc, 2mA
<b>Leakage Current</b>	Maximum 0.5mA at 277Vac, 60Hz input
<b>Protection</b>	<ul style="list-style-type: none"> <li>• <b>Over Voltage Protection:</b> Hiccup mode. Protection will trigger when load voltage exceeds specified output voltage and will auto recover after the fault mode is removed.</li> <li>• <b>Over Current Protection:</b> Hiccup mode. Protection will trigger when load current exceeds specified output current and will auto recover after the fault mode is removed.</li> <li>• <b>Short Circuit Protection:</b> Hiccup mode. Protection will trigger when short circuit and will auto recover after the fault mode is removed.</li> <li>• <b>Over Temperature Protection:</b> Protection will trigger when driver overheats and auto-recovery when cooled down.</li> </ul>



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### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40°C/-40°F to 50°C/122°F
Storage Temperature	-40°C/-40°F to 85°C/185°F
Humidity	5% to 95%
MTBF	TBD
Life Rating	85,000 hours at 120Vac input, 100% load and 60°C/140°F case temperature
Maximum Case Temperature	90°C/194°F

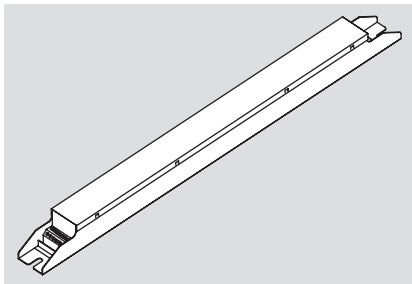
### SAFETY AND EMC COMPLIANCE

UL/cUL	UL 8750 pending
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

### PRODUCT SPECIFICATIONS

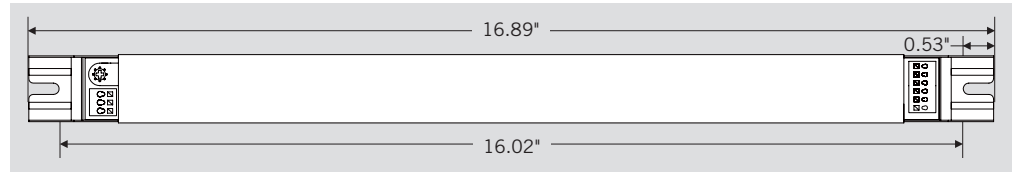
Max. Output Power	Output Current	Output Voltage	OCV	Typical Efficiency at 120V	Typical Efficiency at 240V	Typical Efficiency at 277V	Remote Mounting Distance (#18 AWG)	Class 2	
								US	Canada
100W	1500-3000mA	10-56V	60V	TBD	TBD	TBD	12 ft.	✓	

### PHYSICAL SPECIFICATIONS

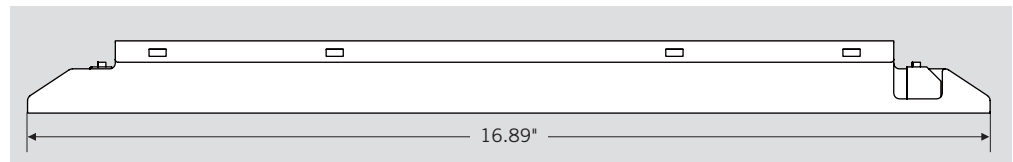


LENGTH	16.89"
WIDTH	1.18"
HEIGHT	1.00"
MOUNTING	16.02"
CASE STYLE	U4
CASE MATERIAL	Metal

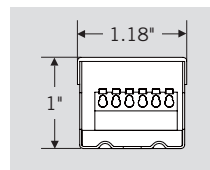
#### TOP VIEW



#### FRONT VIEW

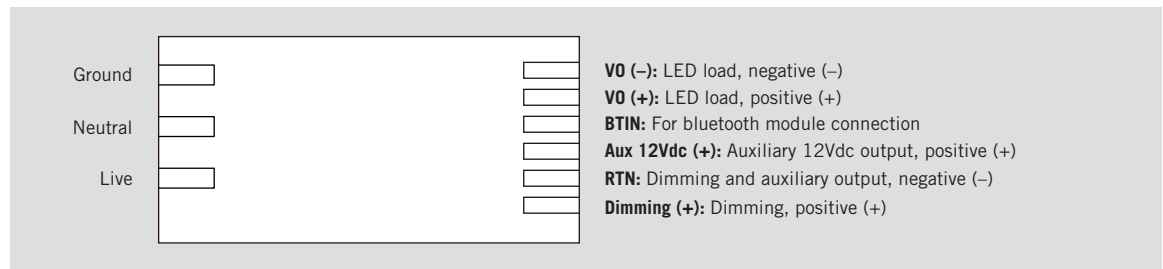


#### SIDE VIEW



### WIRING SPECIFICATIONS

INPUT	Terminal Block
OUTPUT	Terminal Block
DIMMING	Terminal Block

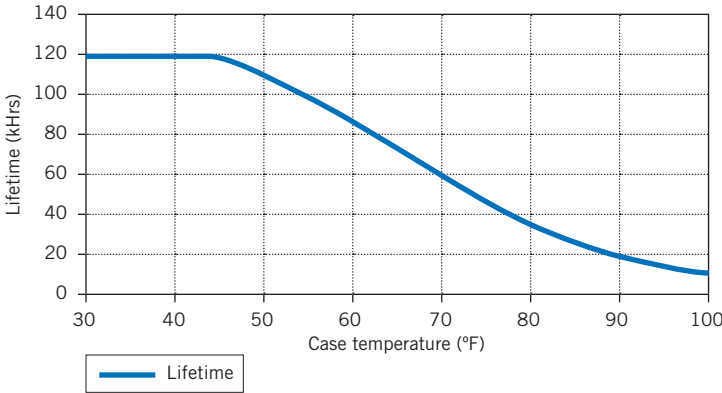




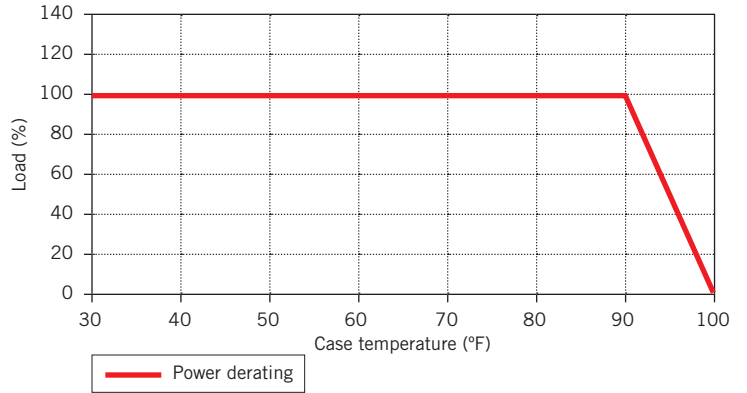
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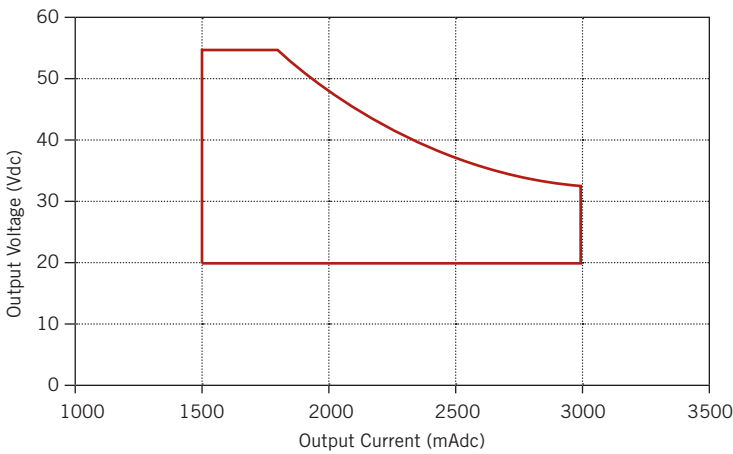
### LIFETIME VS CASE TEMPERATURE



### POWER DERATING VS CASE TEMPERATURE



### LED DRIVER OUTPUT WINDOW



### ORDERING INFORMATION

ORDER CODE	PACKAGING STYLE	PACK QUANTITY	ITEM STATUS
KTLD-100-UV-SC3000-56-VDIM-U4	Carton Pack	TBD	Quick Ship

### CATALOG NUMBER BREAKDOWN

# KTLD-100-UV-SC3000-56-VDIM-U4

- |   |                              |                         |                        |                              |                              |                        |                     |
|---|------------------------------|-------------------------|------------------------|------------------------------|------------------------------|------------------------|---------------------|
| <b>1</b>                                  | <b>2</b>                     | <b>3</b>                | <b>4</b>               | <b>5</b>                     | <b>6</b>                     | <b>7</b>               | <b>8</b>            |
| <b>1</b> Keystone Technologies LED Driver | <b>2</b> Max. Output Wattage | <b>3</b> 120–277V Input | <b>4</b> Smart Current | <b>5</b> Max. Output Current | <b>6</b> Max. Output Voltage | <b>7</b> 0–10V Dimming | <b>8</b> Case Style |