



## KTLD-40-UV-SC1400-56-VDIM-W1 / USB CONSTANT CURRENT PROGRAMMABLE LED DRIVER

#### **DESCRIPTION**

LED Driver | 40W | 120-277V Input | 470-1400mA Programmable Output Current

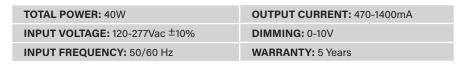














#### **PRODUCT FEATURES**

- Built in USB-C Port for easy programing
- 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%

- -20°C/-4°F to 50°C/122°F Operating Temperature
- 90°C/194°F Maximum Case Temperature
- Input Frequency: 50/60 Hz
- Programmable output current via USB-C cable and an Android device (plus Keystone app) or PC (plus Keystone software)
- · Class A Sound Rating

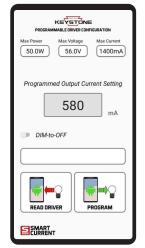
#### **PROGRAMMING FEATURES**

- 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/167°F, 80°C/176°F, 85°C/185°F, or 90°C/194°F)

#### **REQUIRED ACCESSORIES**

| Order Code   | Description                                 |  |  |
|--------------|---|--|--|
| KTLD-SC-USBC | USB-C to USB-C Cable (included with driver) |  |  |

# WHAT'S NEEDED? A Smart Current Programmable LED Driver, USB-C Cable, and a computer or phone



#### **ELECTRICAL SPECIFICATIONS**

| 120-277Vac ±10%   |  |  |  |
|---|--|--|--|
| 50/60 Hz  |  |  |  |
| >0.9 under 120~277Vac Input with 80~100% Load Condition (For All Output Currents)   |  |  |  |
| 24A <sub>neak</sub> @ 277Vac; i²t = 0.01728 A²s   |  |  |  |
| 0.46A @120V, 0.24A @240V and 0.21A @277V  |  |  |  |
| < 20% under 120~277Vac input with 80~100% load condition (For All Output Currents)  |  |  |  |
| ± 2%  |  |  |  |
| ± 1%  |  |  |  |
| ± 5% at Full Load Condition   |  |  |  |
| < 2 Seconds at Full Load Condition  |  |  |  |
| < 10% at Full Load Condition  |  |  |  |
| < 1.5W  |  |  |  |
| < 3%  |  |  |  |
| Input to output, 2,800Vdc, 2mA  |  |  |  |
| Maximum 0.5mA at 277Vac, 60Hz input   |  |  |  |
| <ul> <li>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.</li> </ul>  |  |  |  |
| <ul> <li>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.</li> </ul>  |  |  |  |
| <ul> <li>Short Circuit Protection: Hiccup mode. Protection will trigger when short circuit and will auto recover after the fault mode is removed.</li> <li>Over Temperature Protection: Protection will trigger when driver overheat and auto-recovery when cooled down.</li> </ul> |  |  |  |
|   |  |  |  |





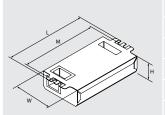
### KTLD-40-UV-SC1400-56-VDIM-W1 / USB

#### CONSTANT CURRENT PROGRAMMABLE LED DRIVER

#### **PRODUCT SPECIFICATIONS**

| Max.            | Output     | Output  | 001 | Typical Efficiency at | Typical Efficiency at | Typical Efficiency at | ,      | Class 2 |        |
|-----------------|------------|---------|-----|-----------------------|-----------------------|-----------------------|--------|---------|--------|
| Output<br>Power | Current    | Voltage | ocv | 120V                  | 240V                  | 277V                  |        | US      | Canada |
| 40W             | 470-1400mA | 10-56V  | 60V | 87%                   | 87%                   | 88%                   | 26 ft. | 1       |        |

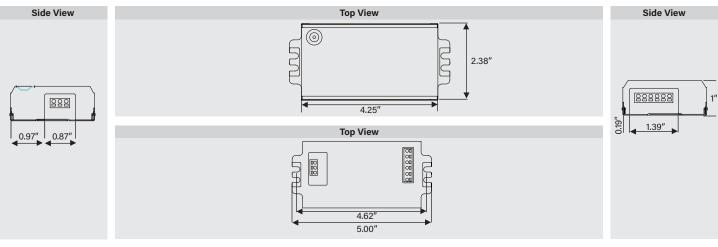
#### PHYSICAL SPECIFICATIONS

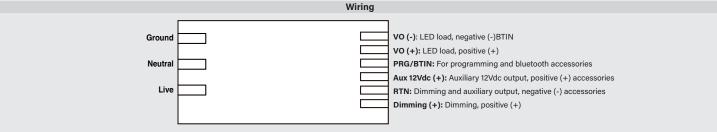


| LENGTH        | 5.00" |
|---------------|-------|
| WIDTH         | 2.38" |
| HEIGHT        | 1.00" |
| MOUNTING      | 4.62" |
| CASE STYLE    | W1    |
| CASE MATERIAL | Metal |

#### WIRING SPECIFICATIONS

| INPUT   | Terminal Block |
|---------|----------------|
| OUTPUT  | Terminal Block |
| DIMMING | Terminal Block |





#### **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%   |
| 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 |
| Maximum Case Temperature                          | 90°C  |
| Maximum Case Temperature (tc) for 5-Year Warranty | 75°C/167°F  |



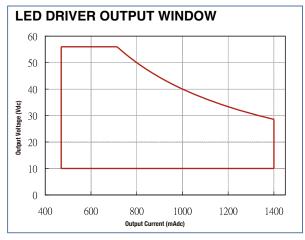


## KTLD-40-UV-SC1400-56-VDIM-W1 / USB CONSTANT CURRENT PROGRAMMABLE LED DRIVER

#### SAFETY AND EMC COMPLIANCE

| UL/cUL             | UL 8750 Pending, 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 700mA to 1400mA.

#### ORDERING INFORMATION

| Order Code                        | Packaging Style | Pack Quantity | Item Status |
|-----------------------------------|-----------------|---------------|-------------|
| KTLD-40-UV-SC1400-56-VDIM-W1 /USB | Carton Pack     | 50            | Quick Ship  |

#### **CATALOG NUMBER BREAKDOWN**

### KTLD-40-UV-SC1400-56-VDIM-W1 /USB

- 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 USB Port