# KTLD-100-UV-XXX-VDIM-67-AP8

## CONSTANT CURRENT LED DRIVER

## DESCRIPTION

LED Driver | 100W | 120-277V Input | 1750-3150mA Output | IP 67

| | |
|---|---|
| **TOTAL POWER:** 100W | **OUTPUT CURRENT:** 1750-3150mA |
| **INPUT VOLTAGE:** 120~277Vac ± 10% | **DIMMING:** 0-10V |
| **INPUT FREQUENCY:** 50/60 Hz | **WARRANTY:** 5 Years |

## 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** | 70A @277V |
| **Max. Input Current** | 0.95A @120V, 0.47A @240V and 0.41A @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** | < 1s at Full Load condition |
| **Overshoot** | < 10% at Full Load Condition |
| **No Load Power Consumption** | < 2.5W |
| **Ripple & 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.<br>• **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.<br>• **Short Circuit Protection:** Hiccup mode. Protection will trigger when short circuited and will auto recover after the fault mode is removed.<br>• **Over Temperature Protection:** Protection will trigger when driver overheat and auto-recovery when cooled down. |

## PRODUCT SPECIFICATIONS

| Catalog Number | 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 |
| KTLD-100-UV-1750-VDIM-67-AP8 | 96W | 1750mA | 27-55V | 56V | 88% | 91% | 91% | 21 ft | ✓ | |
| KTLD-100-UV-1800-VDIM-67-AP8 | 96W | 1800mA | 27-53V | 54V | 88% | 91% | 91% | 20 ft | ✓ | |
| KTLD-100-UV-1900-VDIM-67-AP8 | 96W | 1900mA | 25-51V | 52V | 87% | 90% | 90% | 19 ft | ✓ | |
| KTLD-100-UV-2000-VDIM-67-AP8 | 96W | 2000mA | 24-48V | 49V | 87% | 90% | 90% | 18 ft | ✓ | |
| KTLD-100-UV-2100-VDIM-67-AP8 | 96W | 2100mA | 23-46V | 47V | 87% | 90% | 90% | 17 ft | ✓ | |
| KTLD-100-UV-2200-VDIM-67-AP8 | 96W | 2200mA | 22-44V | 45V | 87% | 90% | 90% | 17 ft | ✓ | |
| KTLD-100-UV-2300-VDIM-67-AP8 | 96W | 2300mA | 21-42V | 43V | 87% | 90% | 90% | 16 ft | ✓ | ✓ |
| KTLD-100-UV-2400-VDIM-67-AP8 | 96W | 2400mA | 20-40V | 41V | 87% | 90% | 90% | 15 ft | ✓ | ✓ |
| KTLD-100-UV-2500-VDIM-67-AP8 | 96W | 2500mA | 19-38V | 39V | 87% | 90% | 90% | 14 ft | ✓ | ✓ |
| KTLD-100-UV-2600-VDIM-67-AP8 | 96W | 2600mA | 18-37V | 38V | 86% | 90% | 90% | 14 ft | ✓ | ✓ |
| KTLD-100-UV-2700-VDIM-67-AP8 | 96W | 2700mA | 18-36V | 37V | 86% | 90% | 90% | 13 ft | ✓ | ✓ |
| KTLD-100-UV-2800-VDIM-67-AP8 | 96W | 2800mA | 17-34V | 35V | 86% | 90% | 90% | 13 ft | ✓ | ✓ |
| KTLD-100-UV-2900-VDIM-67-AP8 | 96W | 2900mA | 17-33V | 34V | 86% | 90% | 90% | 12 ft | ✓ | ✓ |
| KTLD-100-UV-3000-VDIM-67-AP8 | 96W | 3000mA | 16-32V | 33V | 86% | 90% | 90% | 12 ft | ✓ | ✓ |
| KTLD-100-UV-3100-VDIM-67-AP8 | 96W | 3100mA | 15-31V | 32V | 86% | 90% | 90% | 12 ft | ✓ | ✓ |
| KTLD-100-UV-3150-VDIM-67-AP8 | 96W | 3150mA | 15-30V | 31V | 86% | 90% | 90% | 11 ft | ✓ | ✓ |

# KTLD-100-UV-XXX-VDIM-67-AP8
## CONSTANT CURRENT LED DRIVER

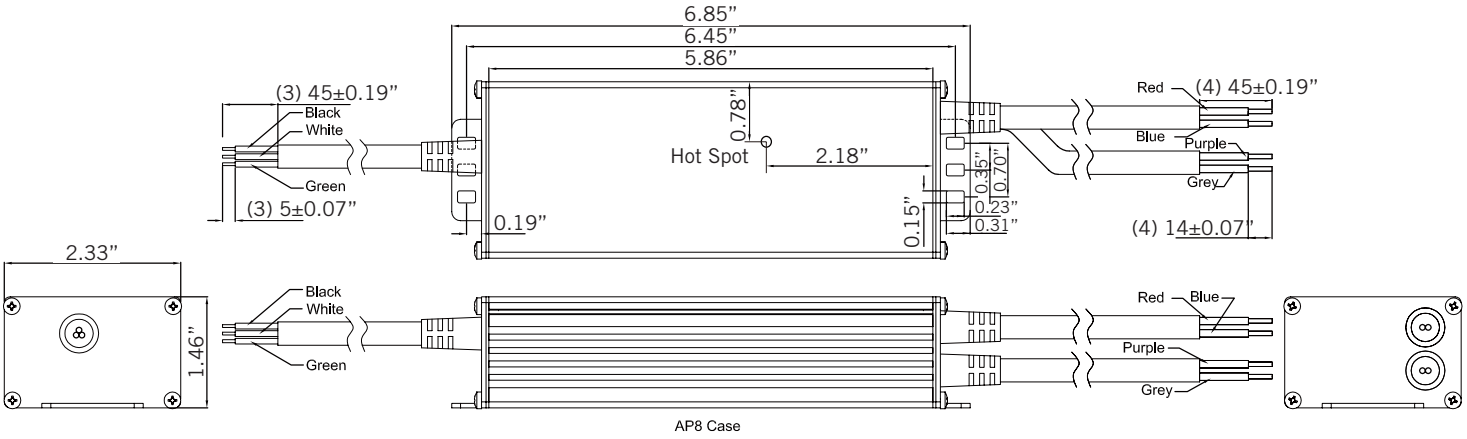
## ENVIRONMENTAL SPECIFICATIONS

| | |
|---|---|
| **Operating Temperature** | -40 to 60°C |
| **Storage Temperature** | -40 to 85°C |
| **Humidity** | 5% to 95% |
| **MTBF** | TBD |
| **Life Rating** | 85,000 hours at 120Vac input, 100% load and 60°C case temperature |
| **Maximum Case Temperature** | 90°C |

## SAFETY AND EMC COMPLIANCE

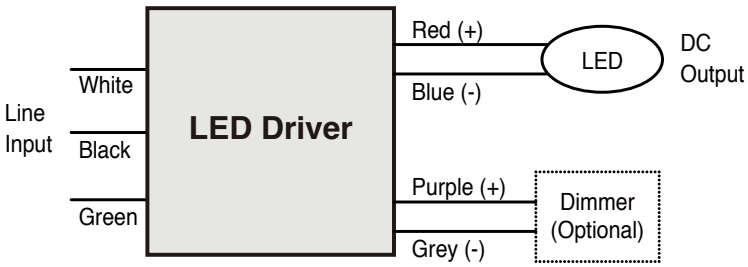
| | |
|---|---|
| **UL/cUL** | UL 8750, Class P, Type HL |
| **CE** | EN61347-1, EN61347-2-13 |
| **FCC, 47CFR Part 15** | ANSI C63.4:2009 Class B (Consumer Limit) |
| **EN61000-3-2** | Harmonic Current Emissions Class C |

## PHYSICAL SPECIFICATIONS




AP8 Case

## WIRING DIAGRAM




## WIRING SPECIFICATIONS

| | |
|---|---|
| **INPUT** | 12", UL rated SJTW #18AWG x 3C |
| **OUTPUT** | 12", UL rated SJTW #18AWG x 2C |

## ORDERING INFORMATION

| ORDER CODE | PACKAGING STYLE | PACK QTY. | ITEM STATUS |
|---|---|---|---|
| KTLD-100-UV-XXX-VDIM-67-AP8-CP | Carton Pack | TBD | Quick Ship |

## CATALOG NUMBER BREAKDOWN

**KTLD-100-UV-XXX-VDIM-67-AP8-CP**

| KTLD | 100 | UV | XXX | VDIM | 67 | AP8 | CP |
|---|---|---|---|---|---|---|---|
| Keystone Technologies LED Driver | Max. Output Wattage | 120-277V Input | Output Current | 0-10V Dimming | IP 67 Rated | Case Style | Packaging Style |