



KTLD-25-UV-PS600-42-VDIM-LP2

CONSTANT CURRENT LED DRIVER

DESCRIPTION

LED Driver | 25W | 120~277V Input | 450, 500, 550 or 600mA Output



| |
|---|
| TOTAL POWER: 25W |
| INPUT VOLTAGE: 120~277Vac ± 10% |
| INPUT FREQUENCY: 50/60 Hz |
| OUTPUT CURRENT: 450, 500, 550 or 600mA |
| DIMMING: 0-10V |
| 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 | TBD |
| Max. Input Current | TBD |
| THD | < 20% under 120~277Vac input with 80~100% load condition (For All Output Currents) |
| Load Regulation | ± 2% |
| Line Regulation | ± 2% |
| Output Tolerance | ± 5% at Full Load Condition |
| Turn-On Delay Time | < 0.5s at Full Load Condition |
| Overshoot | < 10% at Full Load Condition |
| No Load Power Consumption | < 1W |
| Ripple & Noise (pk-pk) | < 10% |
| Withstand Voltage | Input to output, 2,800Vdc, 2mA |
| Leakage Current | Maximum 0.5mA at 277Vac, 60Hz input |
| Minimum Dim % | ~10% Dimming |
| Protection | <ul style="list-style-type: none"> • 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 circuited and will auto recover after the fault mode is removed. |

PRODUCT SPECIFICATIONS

| Catalog Number | Output Current | Output Voltage | Output Power | OCV | Typical Efficiency at 120V | Typical Efficiency at 240V | Typical Efficiency at 277V | Remote Mounting Distance (#18 AWG) | Class 2 | |
|------------------------------|----------------|----------------|--------------|-----|----------------------------|----------------------------|----------------------------|------------------------------------|---------|--------|
| | | | | | | | | | US | Canada |
| KTLD-25-UV-PS600-42-VDIM-LP2 | 450mA | 20-42V | 18.9W | 47V | 86% | 87% | 87% | 62 ft | ✓ | ✓ |
| | 500mA | 20-42V | 21.0W | | | | | | | |
| | 550mA | 20-42V | 23.1W | | | | | | | |
| | 600mA | 20-42V | 25.2W | | | | | | | |

ENVIRONMENTAL SPECIFICATIONS

| | |
|--------------------------|---|
| Operating Temperature | -40°C/-40°F to 60°C/140°F |
| Storage Temperature | -40°C/-40°F to 85°C/185°F |
| Humidity | 5% to 95% |
| MTBF | 365,000 hours at 40°C/104°F ambient (~70°C/158°F Case temp) |
| Life Rating | 85,000 hours at 120Vac input, 100% load and 60°C/140°F case temperature |
| Maximum Case Temperature | 90°/194°F |

SAFETY AND EMC COMPLIANCE

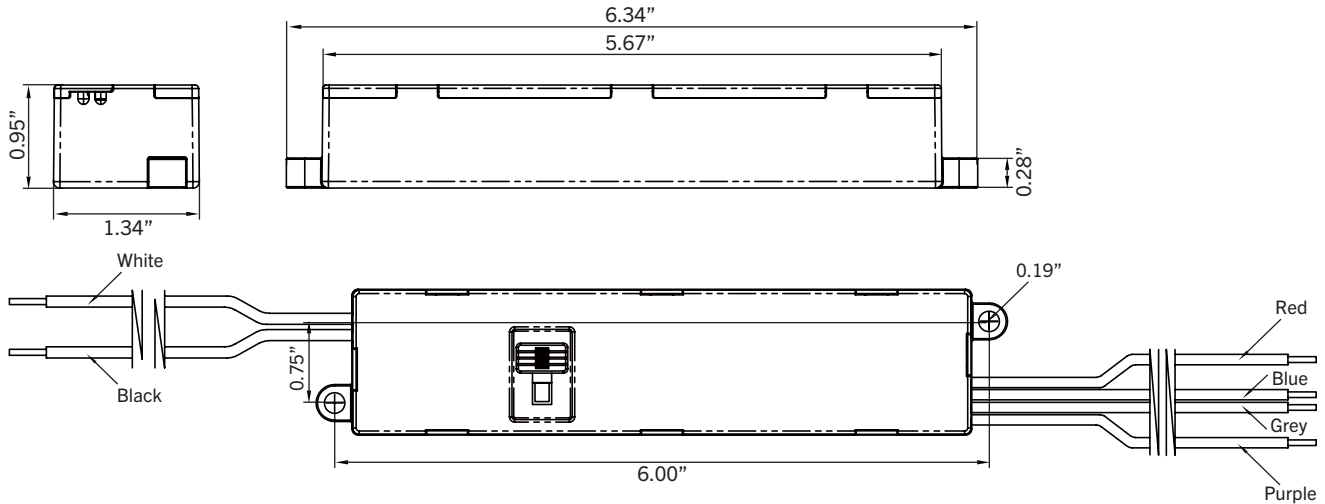
| | |
|--------------------|---|
| UL/cUL | UL 8750, Class P, UL1310 Class 2 |
| CE | EN61347-1, EN61347-2-13 |
| FCC, 47CFR Part 15 | ANSI C63.4:2009 Class B (Consumer Limit) |
| EN61000-3-2 | Harmonic Current Emissions Class C |
| Sound Rating | Class A Sound Rating (per Energy Star V1.0) |



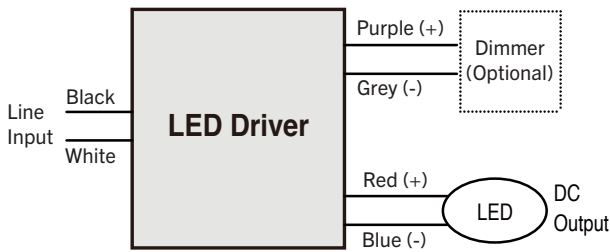
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PHYSICAL SPECIFICATIONS



WIRING DIAGRAM

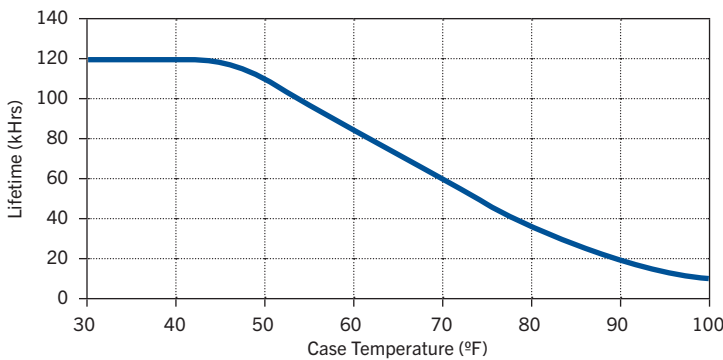


WIRING SPECIFICATIONS

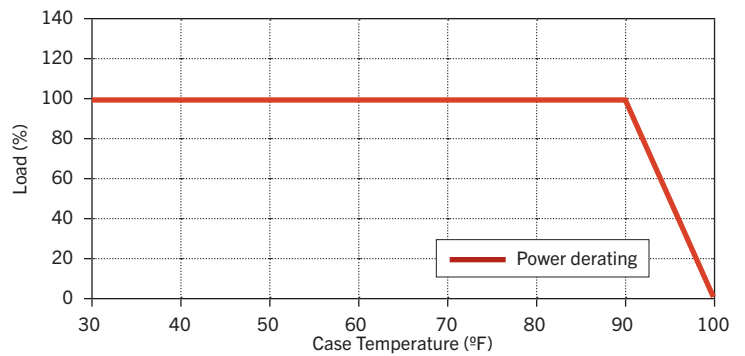
| | |
|----------------|---------------------------------------|
| INPUT | 12", UL 1569 #18AWG (Black and White) |
| OUTPUT | 12", UL 1569 #18AWG (Red and Blue) |
| DIMMING | 12", UL 1569 #18AWG (Purple and Grey) |

PERFORMANCE SPECIFICATIONS

LIFETIME VS CASE TEMPERATURE



POWER DERATING VS CASE TEMPERATURE

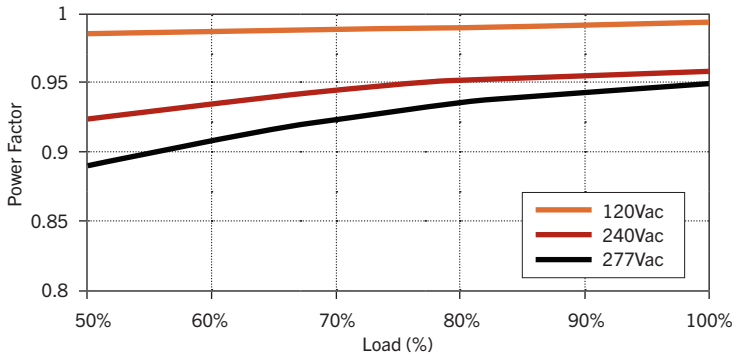




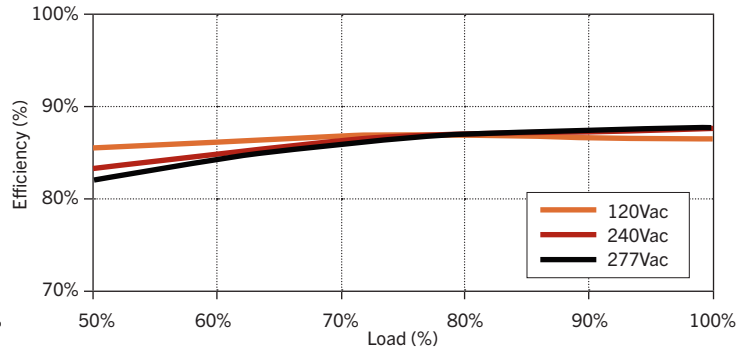
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POWER FACTOR VS LOAD



EFFICIENCY VS LOAD



ORDERING INFORMATION

| ORDER CODE | PACKAGING STYLE | PACK QTY. | ITEM STATUS |
|------------------------------|-----------------|-----------|-------------|
| KTLD-25-UV-PS600-42-VDIM-LP2 | Carton Pack | TBD | Quick Ship |

CATALOG NUMBER BREAKDOWN

KTLD-25-UV-PS600-42-VDIM-LP2

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8

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