



KTLD-25-1-XXX-FDIM-AF4

CONSTANT CURRENT LED DRIVER



DESCRIPTION

LED Driver | 25W | 120V Input | Constant Current Output

| | |
|---------------------------|--|
| DRIVER TYPE: | Constant Current LED Driver |
| MAX. OUTPUT POWER: | 25W |
| INPUT VOLTAGE: | 120Vac \pm 10% |
| NUMBER OF OUTPUTS: | 1 |
| LOCATION TYPE: | IP20 for dry and damp locations |
| SAFETY COMPLIANCE: | UL 8750 |
| DIMMING: | Dimmable with leading / trailing edge dimmer |
| WARRANTY: | 5 Years |



SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

| | |
|----------------------------|--|
| Input voltage Range: | 120Vac \pm 10% |
| Frequency: | 60 Hz |
| Powr Factor: | >0.9 under 120Vac input with 80~100% load condition (for all output currents) |
| Inrush current: | 10A @ 120V |
| Max input current: | 0.27A @ 120V |
| THD: | <20% under 120Vac 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: | <0.75s at full load condition |
| Overshoot: | <10% at full load condition |
| No Load Power Consumption: | <2W |
| Withstand voltage: | Input to output, 2,800Vdc, 2mA |
| Leakage current: | Maximum 0.5mA at 120Vac 60Hz input |
| Protection: | <p>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.</p> <p>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.</p> <p>Short Circuit Protection: Hiccup mode. Protection will trigger from short circuit and will auto recover after the fault mode is removed.</p> |

ENVIRONMENTAL SPECIFICATIONS

| | |
|--------------------------|---|
| Operating Temperature | -40 to 60° C |
| Storage Temperature | -40 to 85° C |
| Humidity | 5% to 95% |
| MTBF | 440,000 hours at 40°C ambient (~70°C Case temp) |
| Life rating | 82,500 hours at 120Vac input, 100% load and 60°C case temperature |
| Maximum Case Temperature | 90°C |



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SAFETY AND EMC COMPLIANCE

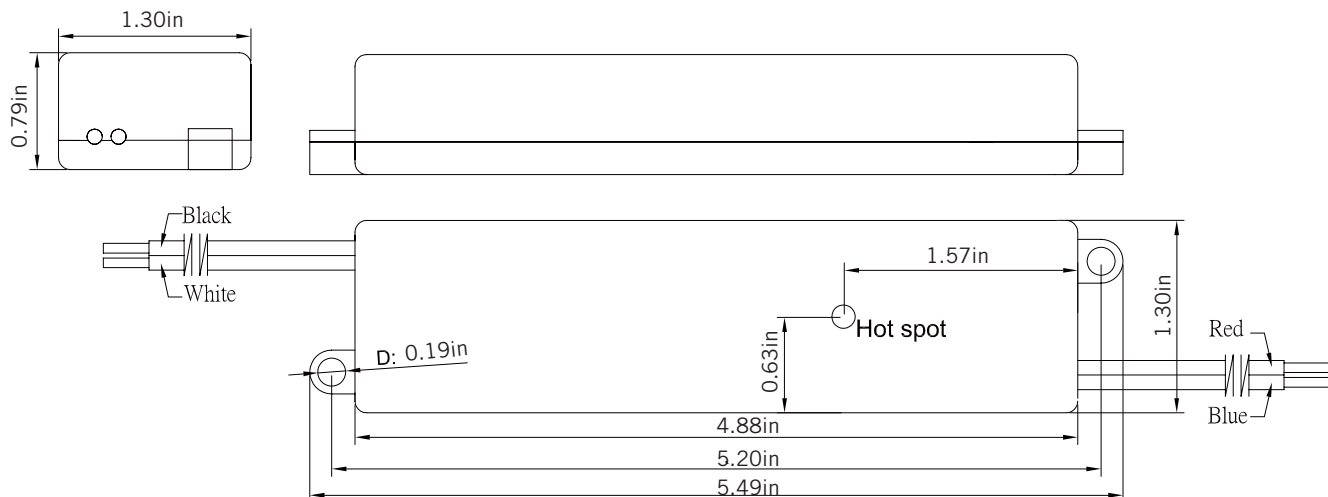
| | |
|---------------------|--|
| UL/cUL | UL 8750, Type HL, Type TL |
| CE | EN61347-1, EN61347-2-13 |
| FCC, 47CFR, Part 15 | ANSI C63.4:2009 Class B (Consumer Limit) |
| EN6100-3-2 | Harmonic Current Emissions Class C |

PRODUCT SPECIFICATIONS

| Model Number | Max Output Power | Output Current | Output Voltage | OCV | Efficiency at 120V (Typ.) | Remote Mounting Distance (#18AWG) | Class 2 | |
|-------------------------|------------------|----------------|----------------|-----|---------------------------|-----------------------------------|---------|--------|
| | | | | | | | US | Canada |
| KTLD-25-1-500-FDIM-AF4 | 25W | 500mA | 25-50V | 57V | 82% | 74 ft | ✓ | |
| KTLD-25-1-600-FDIM-AF4 | 25W | 600mA | 21-42V | 48V | 82% | 62 ft | ✓ | ✓ |
| KTLD-25-1-650-FDIM-AF4 | 25W | 650mA | 19-38V | 45V | 82% | 59 ft | ✓ | ✓ |
| KTLD-25-1-700-FDIM-AF4 | 25W | 700mA | 18-36V | 42V | 82% | 53 ft | ✓ | ✓ |
| KTLD-25-1-800-FDIM-AF4 | 25W | 800mA | 16-32V | 37V | 82% | 46 ft | ✓ | ✓ |
| KTLD-25-1-900-FDIM-AF4 | 25W | 900mA | 14-28V | 35V | 82% | 41 ft | ✓ | ✓ |
| KTLD-25-1-1000-FDIM-AF4 | 25W | 1000mA | 13-25V | 32V | 82% | 37 ft | ✓ | ✓ |
| KTLD-25-1-1100-FDIM-AF4 | 25W | 1100mA | 12-23V | 30V | 81% | 34 ft | ✓ | ✓ |
| KTLD-25-1-1200-FDIM-AF4 | 25W | 1200mA | 11-21V | 27V | 81% | 32 ft | ✓ | ✓ |
| KTLD-25-1-1300-FDIM-AF4 | 25W | 1300mA | 10-19V | 25V | 81% | 28 ft | ✓ | ✓ |
| KTLD-25-1-1380-FDIM-AF4 | 25W | 1380mA | 9-18V | 24V | 81% | 27 ft | ✓ | ✓ |

WIRING SPECIFICATIONS

| | |
|--------|---------------------------------------|
| Input | 12", UL 1569 #18AWG (Black and White) |
| Output | 12", UL 1569 #18AWG (Red and Blue) |

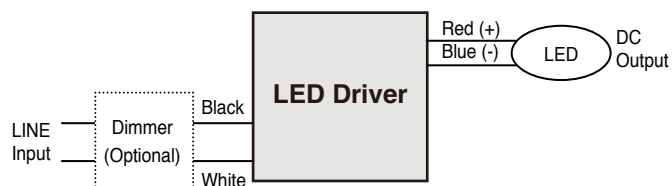




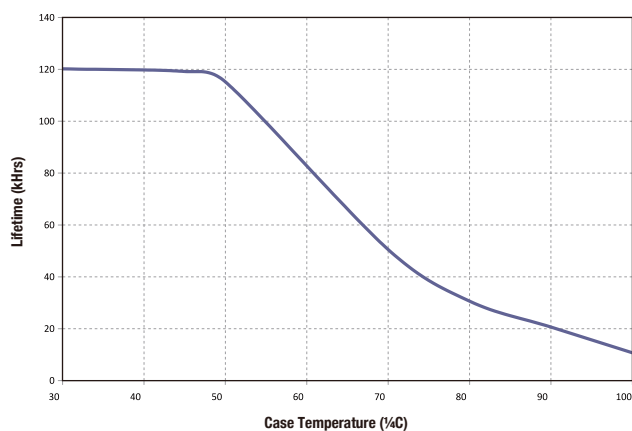
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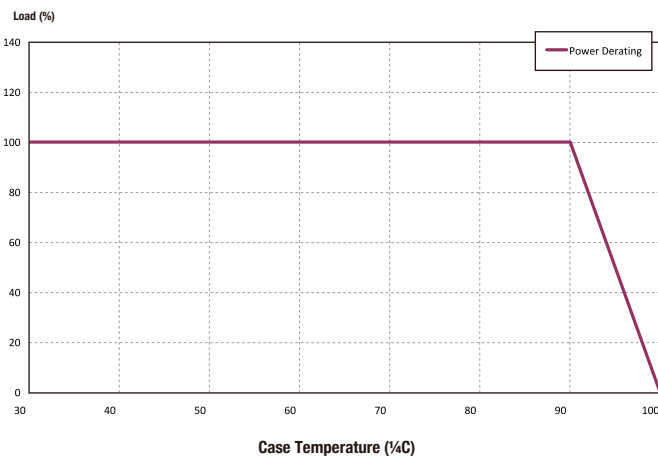
WIRING DIAGRAM



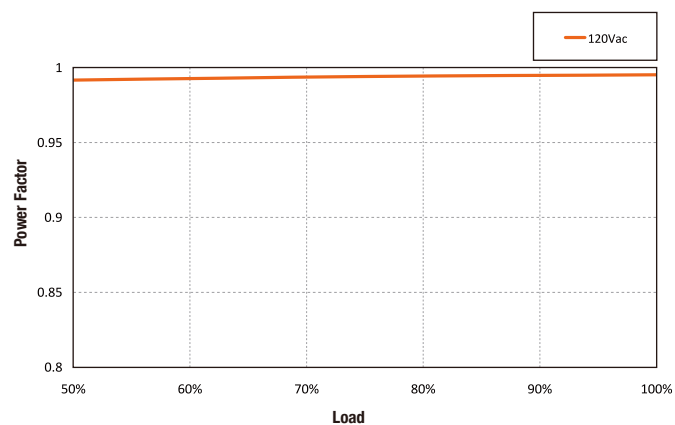
LIFETIME vs CASE TEMPERATURE



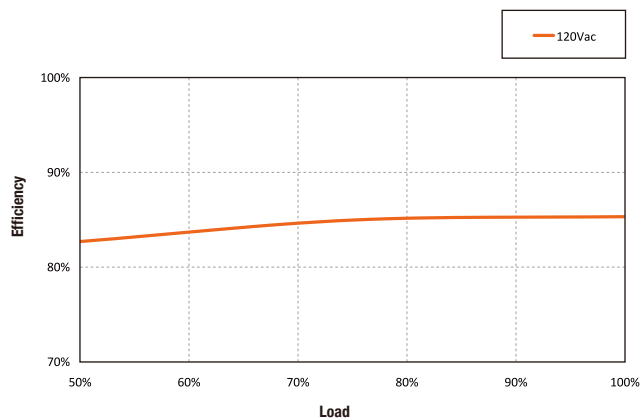
POWER DERATING vs CASE TEMPERATURE



POWER FACTOR vs LOAD (700mA)



EFFICIENCY vs LOAD (700mA)





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ORDERING INFORMATION

| ORDER CODE | PACKAGING STYLE | PACK QTY. | ITEM STATUS |
|---------------------------|-----------------|-----------|-------------|
| KTLD-25-1-XXX-FDIM-AF4-CP | Carton Pack | 40 | Active |

CATALOG NUMBER BREAKDOWN

