



KTLD-100-UV-24V

CONSTANT VOLTAGE LED DRIVER

DESCRIPTION

LED Driver | 96W | 120-277Vac Input | 24Vdc Output

Class 2 Class P



10 YEAR
LIMITED WARRANTY

TOTAL POWER: 96W	OUTPUT VOLTAGE: 24Vdc
INPUT VOLTAGE: 120-277Vac $\pm 10\%$	OUTPUT CURRENT: 0-4000mA
INPUT FREQUENCY: 50/60 Hz	WARRANTY: 10 Year Limited

PRODUCT FEATURES

- Standard Form Factor, Metal Case
- Flicker Free - T24: JA8 & IEE1789 Compliant
- Class 2, Class P
- IP20 Rated, Dry and Damp Location
- Operating Temperature: -40°C/-40°F to 55°C/131°F

ELECTRICAL SPECIFICATIONS

Input Voltage Range	120-277Vac $\pm 10\%$
Frequency	50/60 Hz
Power Factor	>0.9 at 60-100% Load
Inrush Current	25.4 A _{peak} , i ² t = 0.194 A ² s @ 120V, 64.38 A _{peak} , i ² t = 1.803 @ 277V
Max. Input Current	<1.05A (Vin @120 Vac), <0.42A (Vin @ 277Vac)
THD	<20% for 60-100% Load (Vin @120Vac)
Load Regulation	$\pm 5\%$
Line Regulation	$\pm 1\%$
Output Tolerance	$\pm 5\%$ at Full Load Condition
Turn-On Delay Time	<0.5 Seconds, Cold Start
Overshoot	<10%
Ripple and Noise (pk-pk)	<5%
Leakage Current	<0.5mA (Vin @ 120Vac), <0.75mA (Vin @ 277Vac)
Protection	• Over Voltage Protection: Latch 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 circuit and will auto recover after the fault mode is removed. • Over Temperature Protection: Protection will trigger when driver overheats and auto-recovery when cooled down.
Surge Rating	2.5 kV Ring Wave



KTLD-100-UV-24V

CONSTANT VOLTAGE LED DRIVER

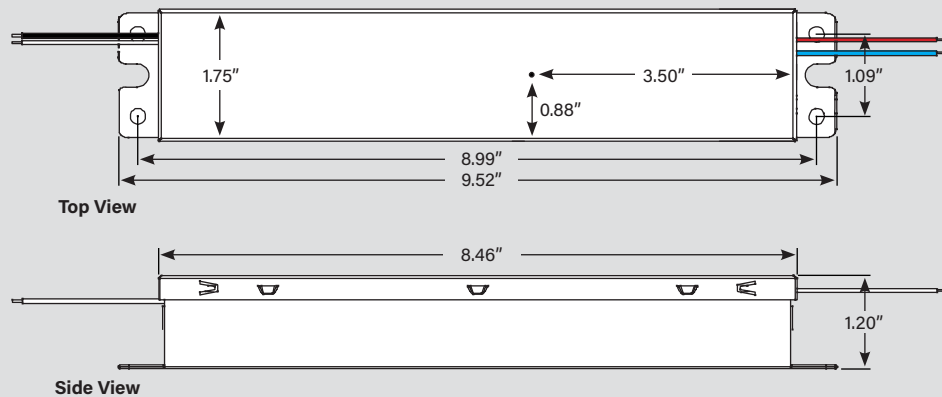
PRODUCT SPECIFICATIONS

Max. Output Power	Output Current	Output Voltage	OCV	Typical Efficiency at 120V	Typical Efficiency at 277V	Remote Mounting Distance (#18 AWG)	Class 2	
							US	Canada
96W	0-4000mA	24Vdc	36V	86%	89%	24 ft.	✓	✓

WIRING SPECIFICATIONS

INPUT	12", UL 1015 #18AWG (Black and White)
OUTPUT	12", UL 1015 #18AWG (Red and Blue)

PHYSICAL SPECIFICATIONS



Wiring Diagram

KTLD-100-UV-24V

White: Neutral

Black: Line

LED Driver

Red: LED (+) LED load, positive

Blue: LED (-) LED load, negative

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40°C/-40°F to 55°C/131°F
Storage Temperature	-40°C/-40°F to 85°C/185°F
Humidity	5% to 95% RH
MTBF	>200,000 Hours at Full Load, 25°C/77°F Ambient Temperature
Life Rating	>50,000 Hours at Full Load, 80°C/176°F Case Temperature
Maximum Case Temperature	90°C/194°F
Maximum Case Temperature (tc) for 5-Year Warranty	80°C/176°F

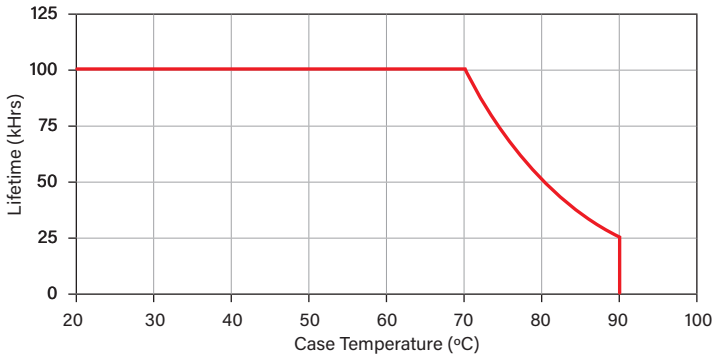
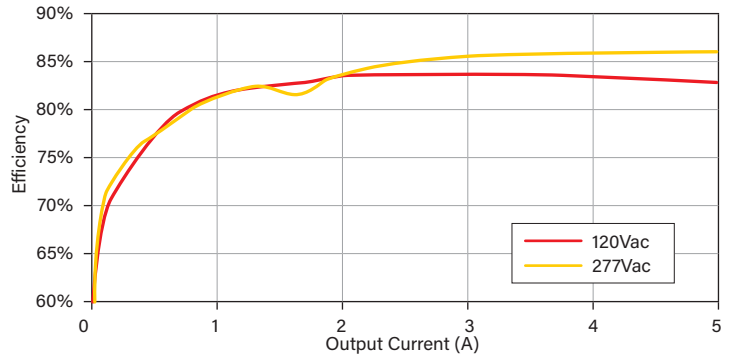
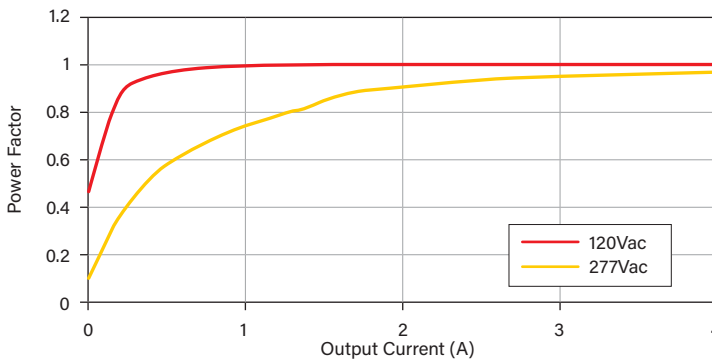
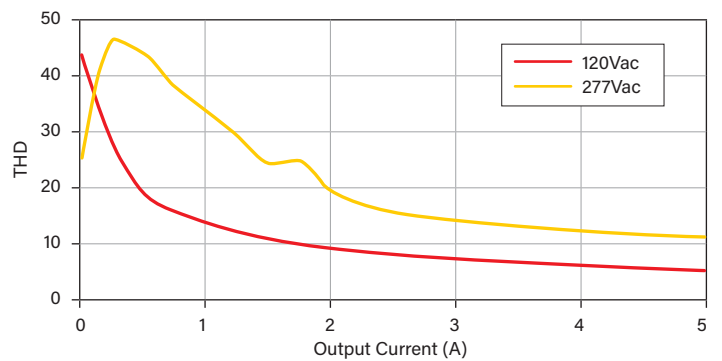
SAFETY AND EMC COMPLIANCE

UL/cUL	UL 8750, Class P, Class 2 CAN/CSA-C22.2 No. 250.13
FCC, 47CFR Part 15	Class B



KTLD-100-UV-24V

CONSTANT VOLTAGE LED DRIVER

LIFETIME VS CASE TEMPERATURE

EFFICIENCY VS OUTPUT CURRENT

POWER FACTOR VS OUTPUT CURRENT

THD VS OUTPUT CURRENT

ORDERING INFORMATION

ORDER CODE	PACKAGING STYLE	PACK QUANTITY	ITEM STATUS	UPC	EASY CODE
KTLD-100-UV-24V	Carton Pack	10	Quick Ship	890949005781	WTJ-24

CATALOG NUMBER BREAKDOWN

KTLD-100-UV-24V

1

2

3

4

- 1** Keystone Technologies LED Driver
- 2** Max. Output Wattage
- 3** 120-277V Input
- 4** Voltage Output