KTLD-100-UVN-24V-SC1

CONSTANT VOLTAGE LED DRIVER

DESCRIPTION

LED Driver | 96W | 120–277V Input | 24V Output

Class 2 Class P c UL us LISTED 10 YEAR LIMITED WARRANTY

TOTAL POWER: 96W	**OUTPUT VOLTAGE:** 24V
INPUT VOLTAGE: 120–277Vac ±10%	**OUTPUT CURRENT:** 4A
INPUT FREQUENCY: 50/60 Hz	**WARRANTY:** 10 Year Limited



PRODUCT FEATURES

- Class 2, Class P, Type HL
- Slim Metal Case
- Flicker Free
- Operating Temperature: -40˚C / -40˚F to 50˚C / 122˚F
- Rated for Dry and Damp Locations

ELECTRICAL SPECIFICATIONS

Input Voltage Range	120–277Vac ±10%
Frequency	50/60 Hz
Power Factor	>0.5 @ 120Vac at full load condition
Inrush Current	48.85 A_{peak}, i^2t = 0.966 A^2s @ 120V, 128.9 A_{peak}, i^2t = 7.560 @ 277V
Max. Input Current	<1.7A (Vin @ 120Vac)
THD	≤200 under 120/277Vac input with 80~100% load condition
Load Regulation	± 5%
Line Regulation	± 1%
Output Tolerance	± 5% at full load condition
Turn-On Delay Time	<0.5 seconds
Overshoot	<10% at full load condition
No Load Power Consumption	<3W
Ripple and Noise (pk-pk)	<5%
Leakage Current	<0.75 mA at Vin @ 277Vac, 60Hz
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

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PRODUCT SPECIFICATIONS

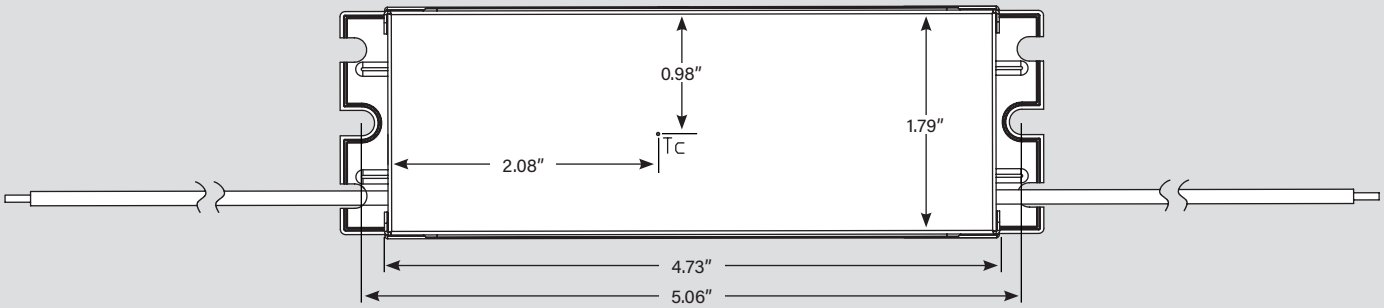
Max. Output Power	Output Current	Output Voltage	OCV	Typical Efficiency at 120V	Typical Efficiency at 277V	Remote Mounting Distance (#18 AWG)	Class 2	
							US	Canada
96W	4A	24V	36V	88%	90%	24 ft.	✓	✓

WIRING SPECIFICATIONS

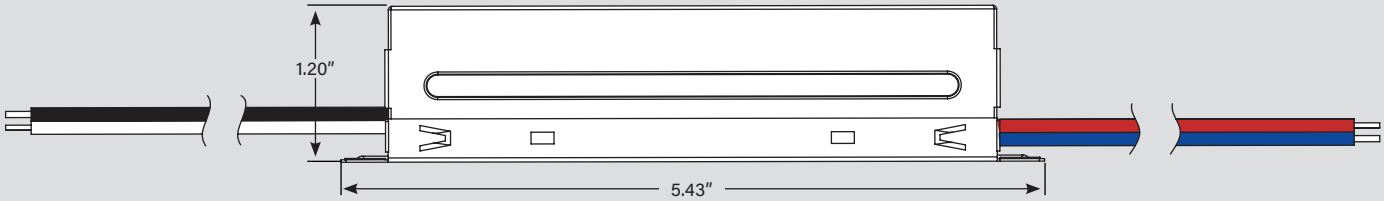
INPUT	Standard Wire Leads, 12″
OUTPUT	Standard Wire Leads, 12″

PHYSICAL SPECIFICATIONS

Top View

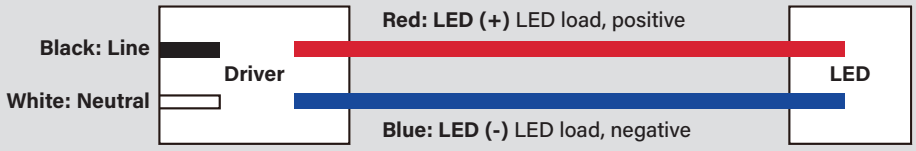


Side View



Wiring Diagram

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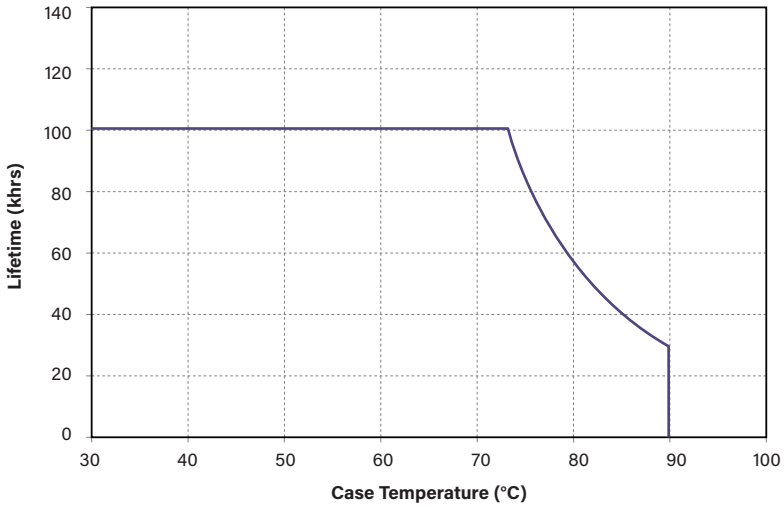
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40°C/-40°F to 50°C/122°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, 83°C/181°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 CAN/CSA-C22.2 No. 250.13
FCC, 47CFR Part 15	Class B at 120 Vac, Class A at 277Vac

LIFETIME VS CASE TEMPERATURE



ORDERING INFORMATION

ORDER CODE	PACKAGING STYLE	PACK QUANTITY	ITEM STATUS	UPC	EASY CODE
KTLD-100-UVN-24V-SC1	Carton Pack	48	Quick Ship	843654173382	HHJ-82

CATALOG NUMBER BREAKDOWN

KTLD-100-UVN-24V-SC1

1 2 3 4 5 6

1 Keystone Technologies LED Driver
2 Max. Output Wattage
3 120–277V Input
4 Normal Power Factor
5 Output Voltage
6 Case Style