KTLD-100-UV-24V-AO2

CONSTANT VOLTAGE LED DRIVER

DESCRIPTION

LED Driver | 100W | 120–277V Input | 24V Output

- **TOTAL POWER:** 100W
- **INPUT VOLTAGE:** 120–277Vac ±10%
- **INPUT FREQUENCY:** 50/60Hz
- **OUTPUT VOLTAGE:** 24V
- **LOCATION:** Suitable for Dry and Damp Locations
- **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 voltage)
Inrush Current	20A @230V
Max. Input Current	0.94A @120V, 0.47A @240V, and 0.41A @277V
THD	<20% under 120–277Vac input with 80~100% load condition (for all output voltage)
Load Regulation	±2%
Line Regulation	±1%
Voltage Tolerance	±5% at full load condition
Turn-On Delay Time	<2.00 seconds at full load condition
Overshoot	<10% at full load condition
No Load Power Consumption	<3W
Ripple and Noise (pk–pk)	<3%
Withstand Voltage	Input to output, 2,800Vdc, 2mA
Leakage Current	Maximum 0.5mA @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. • **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 occurs and will auto-recover after the fault mode is removed.

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-24V-AO2	96W	0–4A	24V	25V	87%	88%	88%	9 ft	✓	✓

ENVIRONMENTAL SPECIFICATIONS

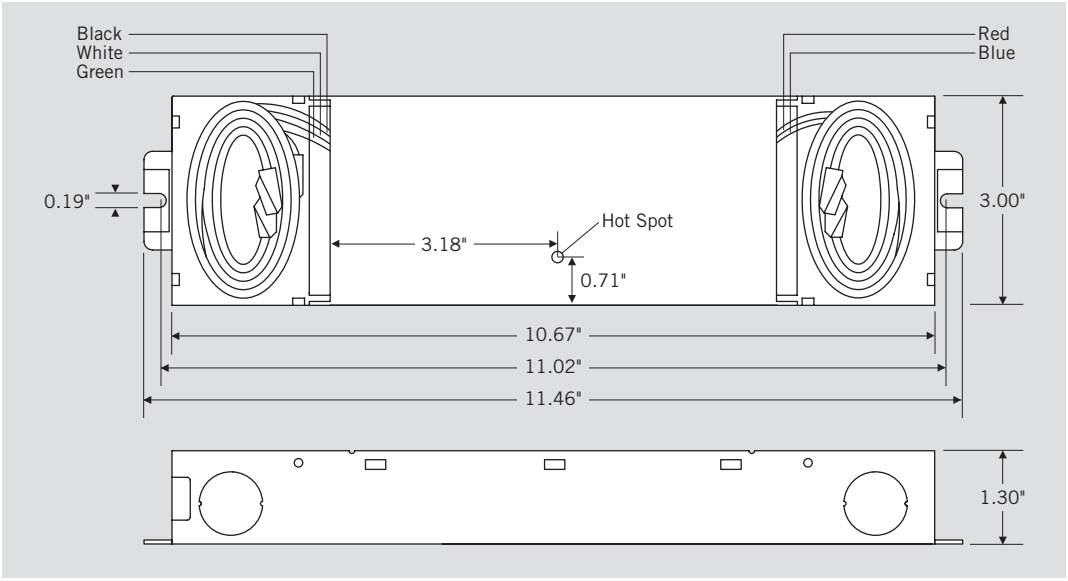
Operating Temperature	–40°C/–40°F to 60°C/140°F
Storage Temperature	–40°C/–40°F to 85°C/185°F
Humidity	5% to 95%
MTBF	258,000 hours at 40°C/104°F ambient (~70°C/158°F case temperature)
Life Rating	80,000 hours at 120Vac input, 100% load, and 60°C/140°F case temperature
Maximum Case Temperature	90°C/194°F

SAFETY AND EMC COMPLIANCE

UL/cUL	UL 8750
FCC, 47CFR Part 15	ANSI C63.4:2009 Class B (Consumer Limit)

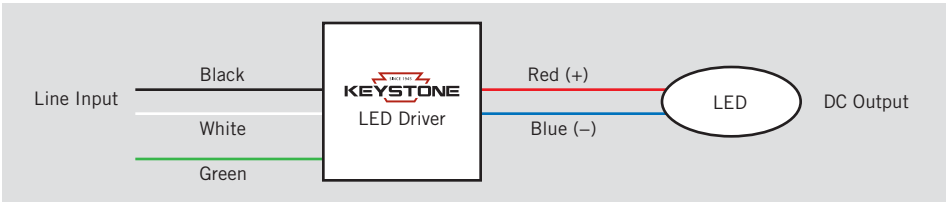
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CONSTANT VOLTAGE LED DRIVER

PHYSICAL SPECIFICATIONS



Length	11.46"
Width	3.00"
Height	1.30"
Mounting	11.02"

WIRING DIAGRAM



WIRING SPECIFICATIONS

Input	**Black**	12.00", UL 1316 #18AWG
	White	12.00", UL 1316 #18AWG
	Green	12.00", UL 1316 #18AWG
Output	**Red**	12.00", UL 1316 #18AWG
	Blue	12.00", UL 1316 #18AWG

ORDERING INFORMATION

ORDER CODE	PACKAGING STYLE	PACK QUANTITY	ITEM STATUS
KTLD-100-UV-24V-AO2-CP	Carton Pack	15 ea.	Quick Ship

CATALOG NUMBER BREAKDOWN

KTLD-100-UV-24V-AO2-CP

1 2 3 4 5 6

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