



KTLD-40-UV-850-L2

LED DRIVER



Constant current LED driver
Total power: 40W
Input voltage: 120~277Vac $\pm$ 10%
Number of outputs: One
UL Listed, Class P
IP20 design for dry and damp location
5 year warranty

ELECTRICAL SPECIFICATIONS

Input voltage range:	120~277Vac $\pm$ 10%
Frequency:	50/60Hz
Power factor:	> 0.9 under 120~277Vac input with 80~100% load condition (for all output currents)
Inrush current:	10A @120V
Max input current:	0.47A @120V, 0.25A @240V and 0.21A @277V
THD:	< 20% under 120~277Vac 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
Ripple & Noise (pk-pk):	< 10%
Withstand voltage:	Input to output, 2,800Vdc, 2mA
Leakage current:	Maximum 0.5mA at 277Vac, 60Hz input
Protection:	Over voltage protection: Hiccup mode. Protection will trigger when load voltage exceed specified output voltage and will auto recover after the fault mode is removed. Over current protection: Hiccup mode. Protection will trigger when load current exceed 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 overheat and auto-recovery when cooled down.

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:	76,000 hours at 120Vac input, 100% load and 60°C case temperature
Maximum case Temperature :	90°C

SAFETY AND EMC COMPLIANCE

UL/cUL	UL Listed, Class P, Type HL
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

PRODUCT SPECIFICATIONS

Model Number	Max output power	Output Current	Output Voltage	OCV	Efficiency at 120V (Typ.)	Efficiency at 240V (Typ.)	Efficiency at 277V (Typ.)	Remote mounting distance (#18 AWG)	Class 2	
									US	Canada
KTLD-40-UV-850-L2	40W	850mA	24-47V	54V	86%	87%	87%	41 ft	✓	

PHYSICAL DIMENSIONS

Length (L):	6.46" (164mm)
Width (W):	1.89" (48mm)
Height (H):	1.15" (29mm)
Mounting (M):	6.00" (153mm)

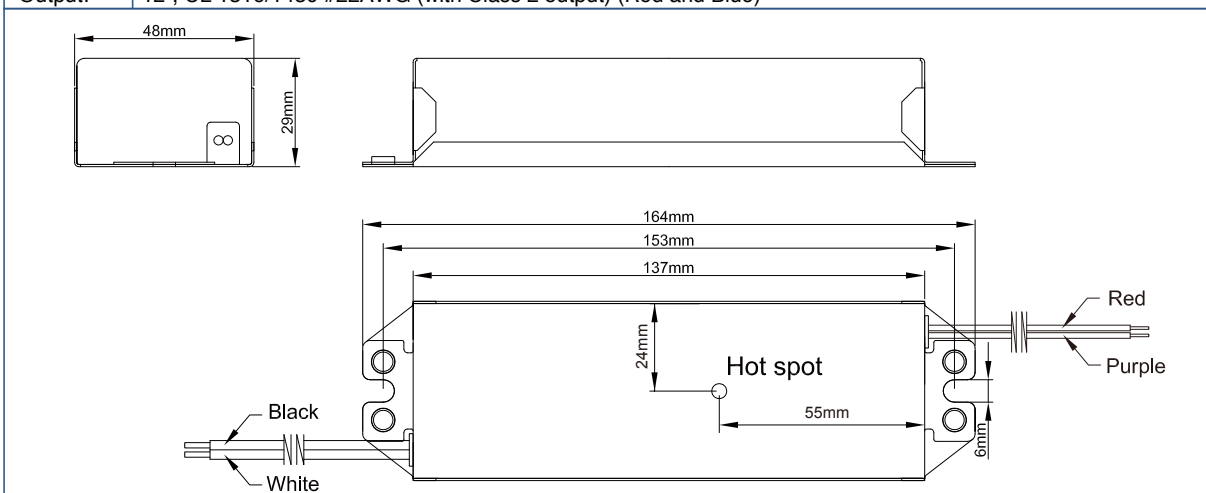
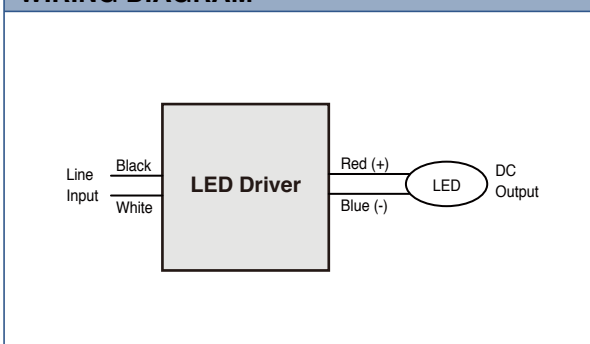
PACKAGING

0.36kg / unit ; 40pcs / carton ; 1,200pcs / pallet	
Carton size:	500 x 245 x 170 mm
Carton weight:	15 kg
Case Material:	Aluminium

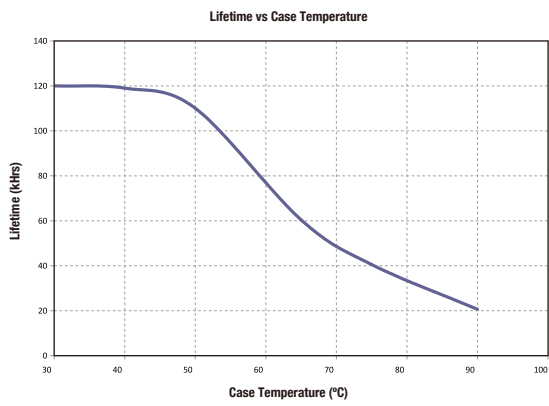
WIRE SPECIFICATIONS

Input: 12", UL 1316 #18AWG (Black and White)

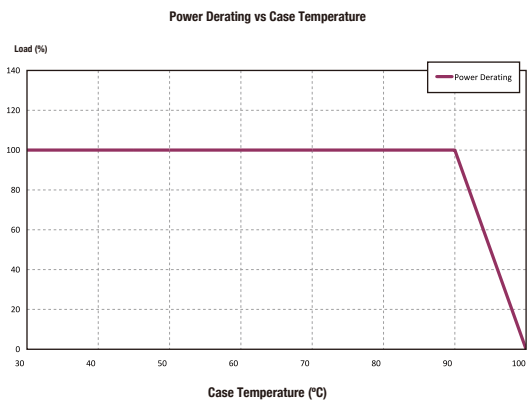
Output: 12", UL 1316/1430 #22AWG (with Class 2 output) (Red and Blue)

**WIRING DIAGRAM**

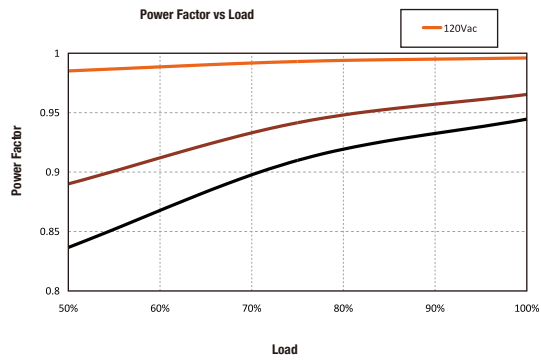
LIFETIME vs CASE TEMPERATURE



POWER DERATING vs CASE TEMPERATURE



POWER FACTOR vs LOAD



EFFICIENCY vs LOAD

