



KTLD-14-UV-XXX-VDIM-AF1

CONSTANT CURRENT LED DRIVER

DESCRIPTION

LED Driver | 14W | 120-277V Input | 250-900mA Output



TOTAL POWER: 14W	OUTPUT CURRENT: 250-900mA
INPUT VOLTAGE: 120~277Vac ± 10%	DIMMING: 0-10V
INPUT FREQUENCY: 50/60 Hz	WARRANTY: 5 Years

ELECTRICAL SPECIFICATIONS

Input Voltage Range	120~277Vac ± 10%
Frequency	50/60Hz
Power Factor	> 0.9 under 120~277Vac input with 80~100% load condition (For All Output Voltage)
Inrush Current	10A @120V
Max. Input Current	0.17A @120V, 0.09A @240V and 0.08A @277V
THD	< 20% under 120~277Vac input with 80~100% load condition (For All Output Voltage)
Load Regulation	± 2%
Line Regulation	± 1%
Output Tolerance	± 5% at Full Load Condition
Turn-On Delay Time	< 0.5s at Full Load Condition
Overshoot	< 10% at Full Load Condition
No Load Power Consumption	< 1W
Ripple & Noise (pk-pk)	< 10%
Withstand Voltage	Input to output, 2,800Vdc, 2mA
Leakage Current	Maximum 0.5mA at 277Vac, 60Hz input
Protection	<ul style="list-style-type: none"> • 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 circuited 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 (#22 AWG)	Class 2	
									US	Canada
KTLD-14-UV-250-VDIM-AF1	14W	250mA	28-56V	63V	84%	82%	81%	59 ft	✓	
KTLD-14-UV-280-VDIM-AF1	14W	280mA	25-50V	56V	84%	82%	81%	52 ft	✓	
KTLD-14-UV-300-VDIM-AF1	14W	300mA	20-40V	45V	84%	82%	81%	49 ft	✓	✓
KTLD-14-UV-400-VDIM-AF1	14W	400mA	18-35V	40V	84%	82%	81%	36 ft	✓	✓
KTLD-14-UV-500-VDIM-AF1	14W	500mA	14-28V	33V	84%	82%	81%	29 ft	✓	✓
KTLD-14-UV-600-VDIM-AF1	14W	600mA	12-23V	28V	84%	82%	81%	24 ft	✓	✓
KTLD-14-UV-700-VDIM-AF1	14W	700mA	12-20V	25V	84%	82%	81%	21 ft	✓	✓
KTLD-14-UV-800-VDIM-AF1	14W	800mA	12-18V	23V	84%	82%	81%	18 ft	✓	✓
KTLD-14-UV-900-VDIM-AF1	14W	900mA	12-16V	20V	84%	82%	81%	16 ft	✓	✓

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 to 60°C
Storage Temperature	-40 to 85°C
Humidity	5% to 95%
MTBF	570,000 hours at 40°C ambient (~70°C Case temp)
Life Rating	80,000 hours at 120Vac input, 100% load and 60°C case temperature
Maximum Case Temperature	90°C

SAFETY AND EMC COMPLIANCE

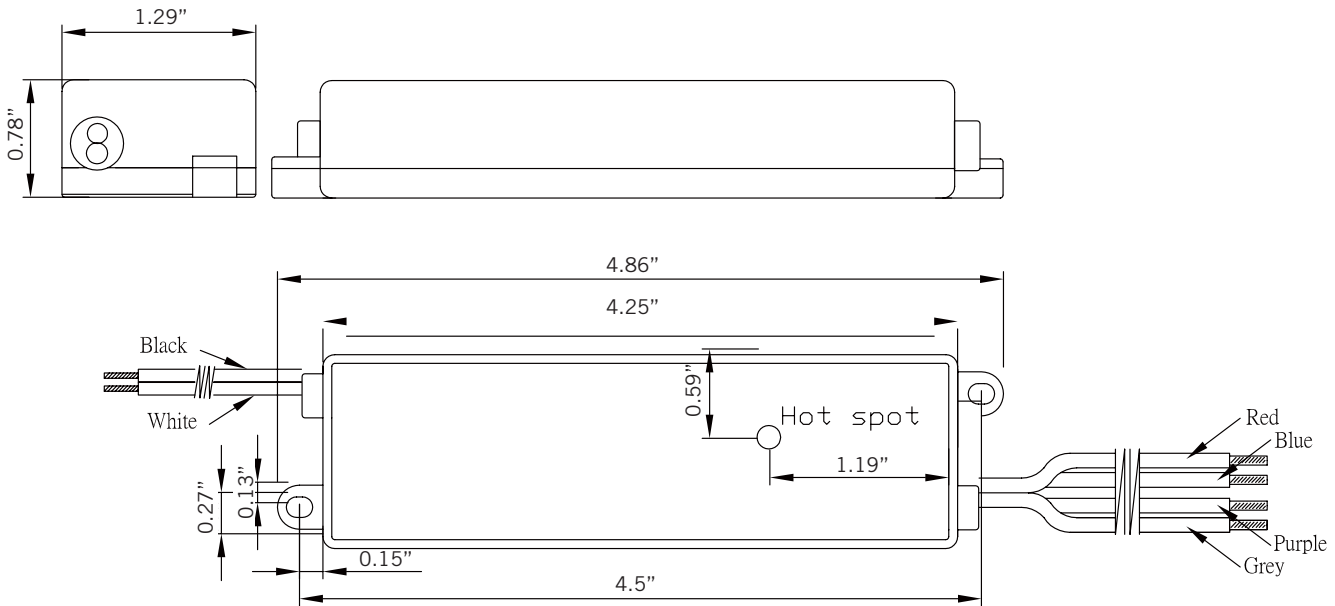
UL/cUL	UL 8750, Class P, Type HL
CE	EN61347-1, EN61347-2-13
FCC, 47CFR Part 15	ANSI C63.4:2009 Class B (Consumer Limit)
EN61000-3-2	Harmonic Current Emissions Class C



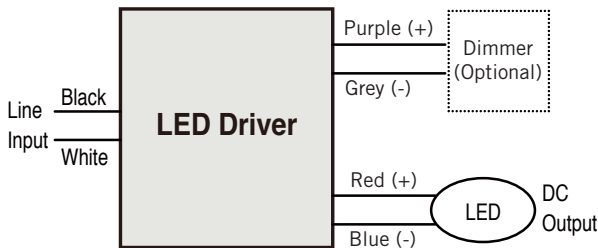
KTLD-14-UV-XXX-VDIM-AF1

CONSTANT CURRENT LED DRIVER

PHYSICAL SPECIFICATIONS



WIRING DIAGRAM



WIRING SPECIFICATIONS

INPUT	12", UL 1316 #18AWG (Black and White)
OUTPUT	12", UL 1430 #22AWG (Red and Blue)

ORDERING INFORMATION

ORDER CODE	PACKAGING STYLE	PACK QTY.	ITEM STATUS
KTLD-14-UV-XXX-VDIM-AF1-CP	Carton Pack	TBD	Quick Ship

CATALOG NUMBER BREAKDOWN

