



KTLD-60-UV-XXX-VDIM-W2

CONSTANT CURRENT LED DRIVER

DESCRIPTION

LED Driver | 60W | 120-277V Input | 600-2500mA Output



TOTAL POWER: 60W	OUTPUT CURRENT: 600-2500mA
INPUT VOLTAGE: 120~277Vac $\pm$ 10%	DIMMING: 0-10V
INPUT FREQUENCY: 50/60 Hz	WARRANTY: 5 Years

ELECTRICAL SPECIFICATIONS

Input Voltage Range	120~277Vac $\pm$ 10%
Frequency	50/60 Hz
Power Factor	> 0.9 under 120~277Vac input with 80~100% load condition (For All Output Currents)
Inrush Current	60A @277V
Max. Input Current	0.61A @120V, 0.31A @240V and 0.27A @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)	< 3%
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 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. • Over Temperature Protection: Protection will trigger when driver overheat and auto-recovery when cooled down.

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-60-UV-600-VDIM-W2	60W	600mA	50-100V	101V	86%	87%	87%	64 ft		
KTLD-60-UV-700-VDIM-W2	60W	700mA	43-86V	87V	86%	86%	86%	54 ft		
KTLD-60-UV-800-VDIM-W2	60W	800mA	38-75V	76V	86%	86%	86%	48 ft		
KTLD-60-UV-900-VDIM-W2	60W	900mA	33-67V	68V	86%	86%	86%	42 ft		
KTLD-60-UV-1000-VDIM-W2	60W	1000mA	30-60V	61V	86%	86%	86%	38 ft	✓	
KTLD-60-UV-1100-VDIM-W2	60W	1100mA	27-55V	56V	85%	86%	86%	34 ft	✓	
KTLD-60-UV-1200-VDIM-W2	60W	1200mA	25-50V	51V	85%	86%	86%	32 ft	✓	
KTLD-60-UV-1300-VDIM-W2	60W	1300mA	23-46V	47V	85%	86%	86%	29 ft	✓	
KTLD-60-UV-1400-VDIM-W2	60W	1400mA	21-43V	44V	85%	86%	86%	27 ft	✓	
KTLD-60-UV-1500-VDIM-W2	60W	1500mA	20-40V	41V	85%	86%	86%	25 ft	✓	✓
KTLD-60-UV-1600-VDIM-W2	60W	1600mA	18-37.5V	39V	85%	86%	86%	24 ft	✓	✓
KTLD-60-UV-1700-VDIM-W2	60W	1700mA	18-35V	36V	85%	86%	86%	22 ft	✓	✓
KTLD-60-UV-1800-VDIM-W2	60W	1800mA	17-33V	34V	85%	86%	86%	21 ft	✓	✓
KTLD-60-UV-1900-VDIM-W2	60W	1900mA	16-32V	33V	85%	86%	86%	20 ft	✓	✓
KTLD-60-UV-2000-VDIM-W2	60W	2000mA	15-30V	31V	85%	86%	86%	19 ft	✓	✓
KTLD-60-UV-2100-VDIM-W2	60W	2100mA	14-29V	30V	85%	86%	86%	18 ft	✓	✓
KTLD-60-UV-2200-VDIM-W2	60W	2200mA	14-27V	28V	85%	86%	86%	17 ft	✓	✓
KTLD-60-UV-2300-VDIM-W2	60W	2300mA	13-26V	27V	85%	86%	86%	16 ft	✓	✓
KTLD-60-UV-2400-VDIM-W2	60W	2400mA	12-25V	26V	85%	86%	86%	16 ft	✓	✓
KTLD-60-UV-2500-VDIM-W2	60W	2500mA	12-24V	25V	85%	86%	86%	15 ft	✓	✓



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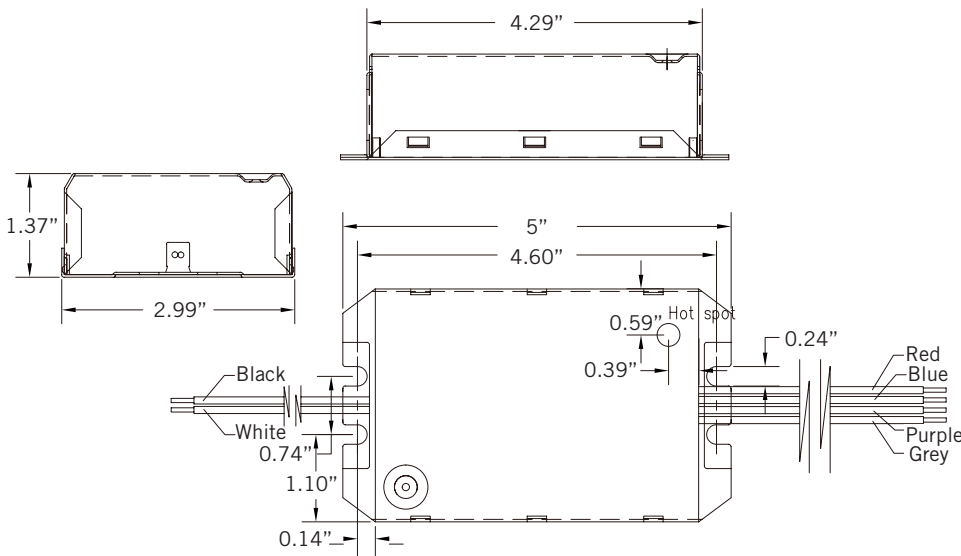
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 to 60°C
Storage Temperature	-40 to 85°C
Humidity	5% to 95%
MTBF	299,000 hours at 40°C ambient (~70°C Case temp)
Life Rating	85,000 hours at 120Vac input, 100% load and 60°C case temperature
Maximum Case Temperature	90°C

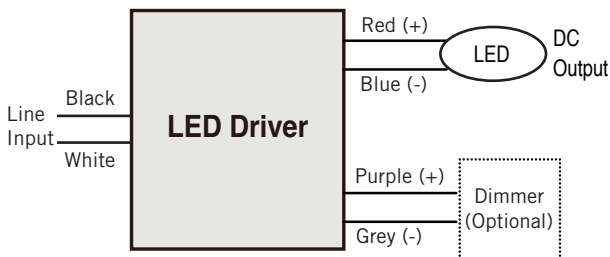
SAFETY AND EMC COMPLIANCE

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

PHYSICAL SPECIFICATIONS



WIRING DIAGRAM



WIRING SPECIFICATIONS

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

ORDERING INFORMATION

ORDER CODE	PACKAGING STYLE	PACK QTY.	ITEM STATUS
KTLD-60-UV-XXX-VDIM-W2-CP	Carton Pack	TBD	Quick Ship

CATALOG NUMBER BREAKDOWN

KTLD-60-UV-XXX-VDIM-W2-CP

Keystone Technologies LED Driver	Max. Output Wattage	120-277V Input	Output Current	0-10V Dimming	Case Style	Packaging Style
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