



KTLD-50-CA-XXXX-VDIM-W2

CONSTANT CURRENT LED DRIVER

DESCRIPTION

LED Driver | 50W | 347V Input | 500-2500mA Output



TOTAL POWER: 50W	OUTPUT CURRENT: 500-2500mA
INPUT VOLTAGE: 347Vac $\pm 10\%$	DIMMING: 0-10V
INPUT FREQUENCY: 50/60 Hz	WARRANTY: 5 Years

ELECTRICAL SPECIFICATIONS

Input Voltage Range	347Vac $\pm 10\%$
Frequency	50/60 Hz
Power Factor	> 0.9 under 347Vac input with 80~100% Load Condition (For All Output Currents)
Inrush Current	7A @347V
Max. Input Current	0.28A @347V
THD	< 20% under 347Vac input with 80~100% Load Condition (For All Output Currents)
Load Regulation	$\pm 2\%$
Line Regulation	$\pm 1\%$
Voltage 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 and 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 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 overheats and auto-recovers when cooled down.

PRODUCT SPECIFICATIONS

Catalog Number	Max. Output Power	Output Current	Output Voltage	OCV	Typical Efficiency at 347V	Remote Mounting Distance (#18 AWG)	Class 2	
							US	Canada
KTLD-50-CA-500-VDIM-W2	50W	500mA	50-100V	110V	89%	76 ft		
KTLD-50-CA-600-VDIM-W2	50W	600mA	42-83V	90V	89%	64 ft		
KTLD-50-CA-700-VDIM-W2	50W	700mA	36-71V	77V	89%	54 ft		
KTLD-50-CA-800-VDIM-W2	50W	800mA	31-62V	66V	89%	48 ft		
KTLD-50-CA-900-VDIM-W2	50W	900mA	27-54V	58V	89%	41 ft	✓	
KTLD-50-CA-1000-VDIM-W2	50W	1000mA	25-50V	54V	88%	38 ft	✓	
KTLD-50-CA-1100-VDIM-W2	50W	1100mA	22-45V	49V	88%	34 ft	✓	
KTLD-50-CA-1200-VDIM-W2	50W	1200mA	21-41V	45V	88%	32 ft	✓	
KTLD-50-CA-1300-VDIM-W2	50W	1300mA	19-38V	42V	88%	29 ft	✓	✓
KTLD-50-CA-1380-VDIM-W2	50W	1380mA	18-36V	40V	88%	28 ft	✓	✓
KTLD-50-CA-1400-VDIM-W2	50W	1400mA	18-36V	40V	88%	27 ft	✓	✓
KTLD-50-CA-1500-VDIM-W2	50W	1500mA	17-33V	37V	88%	25 ft	✓	✓
KTLD-50-CA-1600-VDIM-W2	50W	1600mA	16-31V	35V	88%	24 ft	✓	✓
KTLD-50-CA-1700-VDIM-W2	50W	1700mA	15-29V	33V	88%	22 ft	✓	✓
KTLD-50-CA-1800-VDIM-W2	50W	1800mA	14-28V	32V	88%	21 ft	✓	✓
KTLD-50-CA-1900-VDIM-W2	50W	1900mA	13-26V	30V	88%	20 ft	✓	✓
KTLD-50-CA-2000-VDIM-W2	50W	2000mA	13-25V	29V	87%	19 ft	✓	✓
KTLD-50-CA-2100-VDIM-W2	50W	2100mA	12-24V	28V	87%	18 ft	✓	✓
KTLD-50-CA-2200-VDIM-W2	50W	2200mA	12-23V	27V	87%	17 ft	✓	✓
KTLD-50-CA-2300-VDIM-W2	50W	2300mA	12-22V	26V	87%	16 ft	✓	✓
KTLD-50-CA-2400-VDIM-W2	50W	2400mA	12-21V	25V	87%	16 ft	✓	✓
KTLD-50-CA-2500-VDIM-W2	50W	2500mA	12-20V	24V	87%	15 ft	✓	✓



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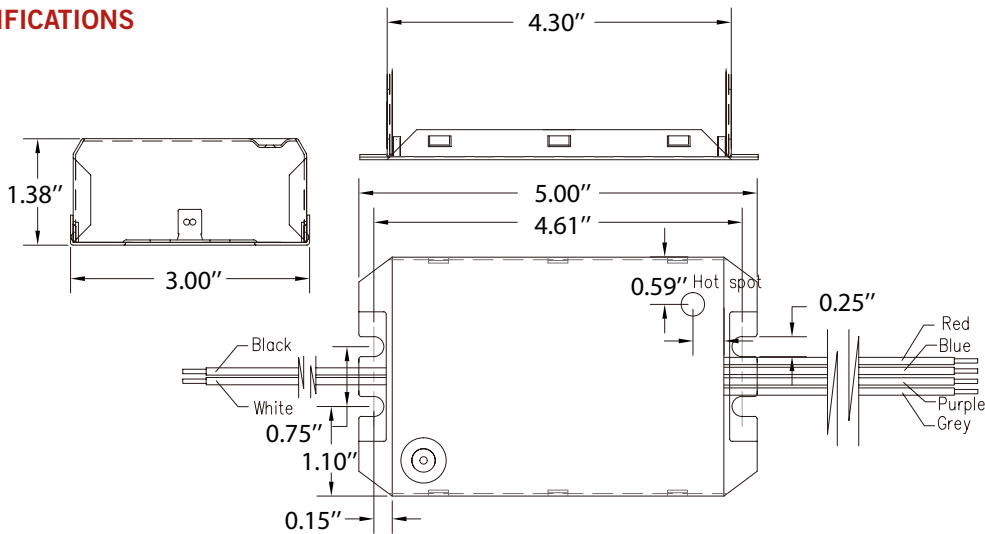
ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 to 60°C
Storage Temperature	-40 to 85°C
Humidity	5% to 95%
MTBF	283,000 hours at 40°C ambient (~70°C Case temp)
Life Rating	95,000 hours at 347Vac input, 100% load and 60°C case temperature
Maximum Case Temperature	90°C

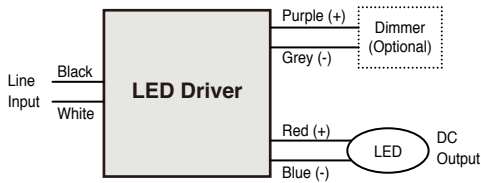
SAFETY AND EMC COMPLIANCE

UL/cUL	UL 8750, 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 1569 #18AWG (with non-class 2 output) 12", UL 1430 #22AWG (with class 2 output) (Red and Blue)
DIMMING	12", UL 1569/1430 #22AWG (Purple and Grey)

ORDERING INFORMATION

Order Code	Packaging Style	Pack Quantity	Item Status
KTLD-50-CA-XXXX-VDIM-W2-CP	Carton Pack	TBD	Quick Ship

CATALOG NUMBER BREAKDOWN

KTLD-50-CA-XXXX-VDIM-L7-CP

Keystone Technologies LED Driver	Max. Output Wattage	347V Input	Output Current	0-10V Dimming	Case Style	Packaging Style
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