



# KTLD-100-UV-XXX-VDIM-L5

## CONSTANT CURRENT LED DRIVER



### DESCRIPTION

LED Driver | 100W | 120-277V Input | 500-3200mA Output

<b>TOTAL POWER:</b> 100W	<b>OUTPUT CURRENT:</b> 500-3200mA
<b>INPUT VOLTAGE:</b> 120~277Vac $\pm$ 10%	<b>DIMMING:</b> 0-10V
<b>INPUT FREQUENCY:</b> 50/60 Hz	<b>WARRANTY:</b> 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	30A @277V
Max. Input Current	1.07A @120V, 0.54A @240V and 0.47A @277V
THD	< 20% under 120~277Vac input with 80~100% load condition (For All Output Currents)
Load Regulation	$\pm$ 1%
Line Regulation	$\pm$ 1%
Output Tolerance	$\pm$ 5% at Full Load Condition
Turn-On Delay Time	< 1s 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	<ul style="list-style-type: none"> <li>• <b>Over Voltage Protection:</b> Hiccup mode. Protection will trigger when load voltage exceeds specified output voltage and will auto recover after the fault mode is removed.</li> <li>• <b>Over Current Protection:</b> Hiccup mode. Protection will trigger when load current exceeds specified output current and will auto recover after the fault mode is removed.</li> <li>• <b>Short Circuit Protection:</b> Hiccup mode. Protection will trigger when short circuited and will auto recover after the fault mode is removed.</li> <li>• <b>Over Temperature Protection:</b> Protection will trigger when driver overheat and auto-recovery when cooled down.</li> </ul>

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40 to 60°C
Storage Temperature	-40 to 85°C
Humidity	5% to 95%
MTBF	125,000 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



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### PRODUCT SPECIFICATIONS

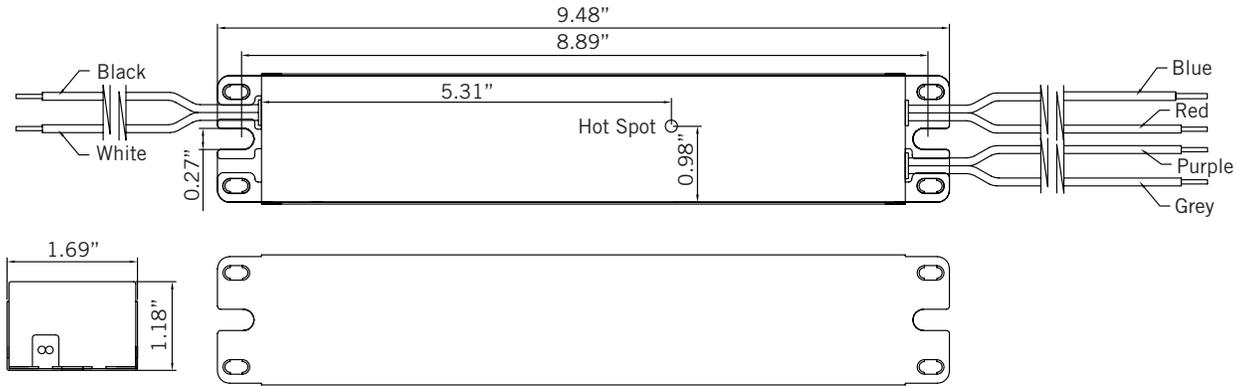
Catalog Number	Max. Output Power	Output Current	Output Voltage	OCV	Typical Efficiency at 120V	Typical Efficiency at 240V	Typical Efficiency at 277V	Remote Mounting Distance (#18 AWG)	Class 2	
									US	Canada
KTLD-100-UV-500-VDIM-L5	100W	500mA	100-200V	202V	88%	89%	90%	76 ft		
KTLD-100-UV-530-VDIM-L5	100W	530mA	94-188V	190V	88%	89%	90%	72 ft		
KTLD-100-UV-600-VDIM-L5	100W	600mA	83-167V	169V	88%	89%	90%	64 ft		
KTLD-100-UV-700-VDIM-L5	100W	700mA	72-143V	144V	88%	89%	90%	54 ft		
KTLD-100-UV-800-VDIM-L5	100W	800mA	63-125V	126V	88%	89%	90%	48 ft		
KTLD-100-UV-900-VDIM-L5	100W	900mA	56-111V	112V	88%	89%	90%	42 ft		
KTLD-100-UV-1000-VDIM-L5	100W	1000mA	50-100V	101V	88%	89%	90%	38 ft		
KTLD-100-UV-1100-VDIM-L5	100W	1100mA	45-91V	92V	87%	88%	89%	34 ft		
KTLD-100-UV-1200-VDIM-L5	100W	1200mA	43-83V	84V	87%	88%	89%	32 ft		
KTLD-100-UV-1300-VDIM-L5	100W	1300mA	38-77V	78V	87%	88%	89%	29 ft		
KTLD-100-UV-1400-VDIM-L5	100W	1400mA	36-71V	72V	87%	88%	89%	27 ft		
KTLD-100-UV-1500-VDIM-L5	100W	1500mA	33-67V	68V	87%	88%	88%	25 ft		
KTLD-100-UV-1600-VDIM-L5	100W	1600mA	31-63V	64V	87%	88%	88%	24 ft		
KTLD-100-UV-1700-VDIM-L5	100W	1700mA	29-59V	60V	87%	88%	88%	22 ft		
KTLD-100-UV-1770-VDIM-L5	100W	1770mA	28-56V	57V	87%	88%	88%	21 ft		
KTLD-100-UV-1780-VDIM-L5	100W	1780mA	28-56V	57V	87%	88%	88%	21 ft	✓	
KTLD-100-UV-1800-VDIM-L5	100W	1800mA	28-56V	57V	87%	88%	88%	21 ft	✓	
KTLD-100-UV-1900-VDIM-L5	100W	1900mA	26-53V	54V	87%	88%	88%	20 ft	✓	
KTLD-100-UV-2000-VDIM-L5	100W	2000mA	25-50V	51V	87%	88%	88%	19 ft	✓	
KTLD-100-UV-2100-VDIM-L5	100W	2100mA	24-48V	49V	87%	88%	88%	18 ft	✓	
KTLD-100-UV-2200-VDIM-L5	100W	2200mA	23-45V	46V	87%	88%	88%	17 ft	✓	
KTLD-100-UV-2300-VDIM-L5	100W	2300mA	22-43V	44V	87%	88%	88%	16 ft	✓	
KTLD-100-UV-2400-VDIM-L5	100W	2400mA	21-42V	43V	87%	88%	88%	16 ft	✓	✓
KTLD-100-UV-2500-VDIM-L5	100W	2500mA	20-40V	41V	87%	88%	88%	15 ft	✓	✓
KTLD-100-UV-2600-VDIM-L5	100W	2600mA	19-38V	39V	87%	88%	88%	14 ft	✓	✓
KTLD-100-UV-2700-VDIM-L5	100W	2700mA	18-37V	38V	86%	87%	88%	14 ft	✓	✓
KTLD-100-UV-2750-VDIM-L5	100W	2750mA	18-36V	37V	86%	87%	88%	13 ft	✓	✓
KTLD-100-UV-2800-VDIM-L5	100W	2800mA	17-35V	36V	86%	87%	88%	13 ft	✓	✓
KTLD-100-UV-2900-VDIM-L5	100W	2900mA	17-34V	35V	86%	87%	88%	13 ft	✓	✓
KTLD-100-UV-3000-VDIM-L5	100W	3000mA	17-33V	34V	86%	87%	88%	12 ft	✓	✓
KTLD-100-UV-3100-VDIM-L5	100W	3100mA	16-32V	33V	86%	87%	88%	12 ft	✓	✓
KTLD-100-UV-3200-VDIM-L5	100W	3200mA	16-31V	32V	86%	87%	88%	12 ft	✓	✓



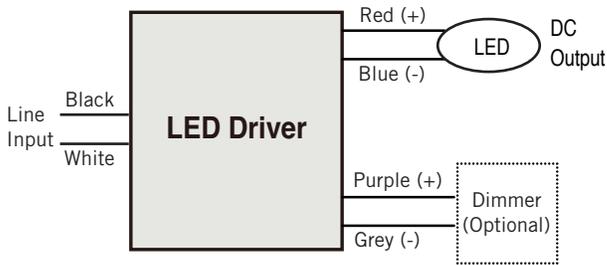
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### PHYSICAL SPECIFICATIONS



### WIRING DIAGRAM



### WIRING SPECIFICATIONS

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

### ORDERING INFORMATION

ORDER CODE	PACKAGING STYLE	PACK QTY.	ITEM STATUS
KTLD-100-UV-XXX-VDIM-L5-CP	Carton Pack	TBD	Quick Ship

### CATALOG NUMBER BREAKDOWN

