



# KTLD-40-1-XXX-FDIM-L9

## CONSTANT CURRENT LED DRIVER

### DESCRIPTION

LED Driver | 40W | 120V Input | 350-2000mA Output



<b>TOTAL POWER:</b> 40W	<b>OUTPUT CURRENT:</b> 350-2000mA
<b>INPUT VOLTAGE:</b> 120Vac $\pm$ 10%	<b>DIMMING:</b> 0-10V
<b>INPUT FREQUENCY:</b> 50/60 Hz	<b>WARRANTY:</b> 5 Years

### ELECTRICAL SPECIFICATIONS

<b>Input Voltage Range</b>	120~277Vac $\pm$ 10%
<b>Frequency</b>	60 Hz
<b>Power Factor</b>	> 0.9 under 120Vac input with 80~100% load condition (For All Output Currents)
<b>Inrush Current</b>	7A @120V
<b>Max. Input Current</b>	0.48A @120V
<b>THD</b>	< 20% under 120Vac input with 80~100% load condition (For All Output Currents)
<b>Load Regulation</b>	$\pm$ 2%
<b>Line Regulation</b>	$\pm$ 1%
<b>Output Tolerance</b>	$\pm$ 5% at Full Load Condition
<b>Turn-On Delay Time</b>	< 0.75s at Full Load Condition
<b>Overshoot</b>	< 10% at Full Load Condition
<b>No Load Power Consumption</b>	< 1W
<b>Withstand Voltage</b>	Input to output, 2,800Vdc, 2mA
<b>Leakage Current</b>	Maximum 0.5mA at 120Vac, 60Hz input
<b>Protection</b>	<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> </ul>

### PRODUCT SPECIFICATIONS

Catalog Number	Max. Output Power	Output Current	Output Voltage	OCV	Typical Efficiency at 120V	Remote Mounting Distance (#22 AWG)	Class 2	
							US	Canada
KTLD-40-1-350-FDIM-L9	40W	350mA	57-114V	121V	84%	42 ft		
KTLD-40-1-400-FDIM-L9	40W	400mA	50-100V	107V	84%	36 ft		
KTLD-40-1-500-FDIM-L9	40W	500mA	40-80V	87V	84%	29 ft		
KTLD-40-1-600-FDIM-L9	40W	600mA	33-67V	74V	84%	24 ft		
KTLD-40-1-700-FDIM-L9	40W	700mA	29-57V	64V	84%	21 ft	✓	
KTLD-40-1-800-FDIM-L9	40W	800mA	25-50V	57V	84%	18 ft	✓	
KTLD-40-1-850-FDIM-L9	40W	850mA	24-47V	54V	84%	17 ft	✓	
KTLD-40-1-900-FDIM-L9	40W	900mA	22-44V	50V	84%	16 ft	✓	
KTLD-40-1-1000-FDIM-L9	40W	1000mA	20-40V	46V	84%	14 ft	✓	✓
KTLD-40-1-1100-FDIM-L9	40W	1100mA	18-36V	42V	84%	13 ft	✓	✓
KTLD-40-1-1200-FDIM-L9	40W	1200mA	17-33V	39V	84%	12 ft	✓	✓
KTLD-40-1-1300-FDIM-L9	40W	1300mA	15-31V	37V	84%	11 ft	✓	✓
KTLD-40-1-1400-FDIM-L9	40W	1400mA	14-29V	34V	84%	10 ft	✓	✓
KTLD-40-1-1500-FDIM-L9	40W	1500mA	13-27V	32V	84%	9 ft	✓	✓
KTLD-40-1-1600-FDIM-L9	40W	1600mA	13-25V	30V	84%	9 ft	✓	✓
KTLD-40-1-1700-FDIM-L9	40W	1700mA	12-24V	29V	84%	8 ft	✓	✓
KTLD-40-1-1800-FDIM-L9	40W	1800mA	11-22V	27V	84%	8 ft	✓	✓
KTLD-40-1-1900-FDIM-L9	40W	1900mA	11-21V	26V	84%	7 ft	✓	✓
KTLD-40-1-2000-FDIM-L9	40W	2000mA	10-20V	25V	84%	7 ft	✓	✓



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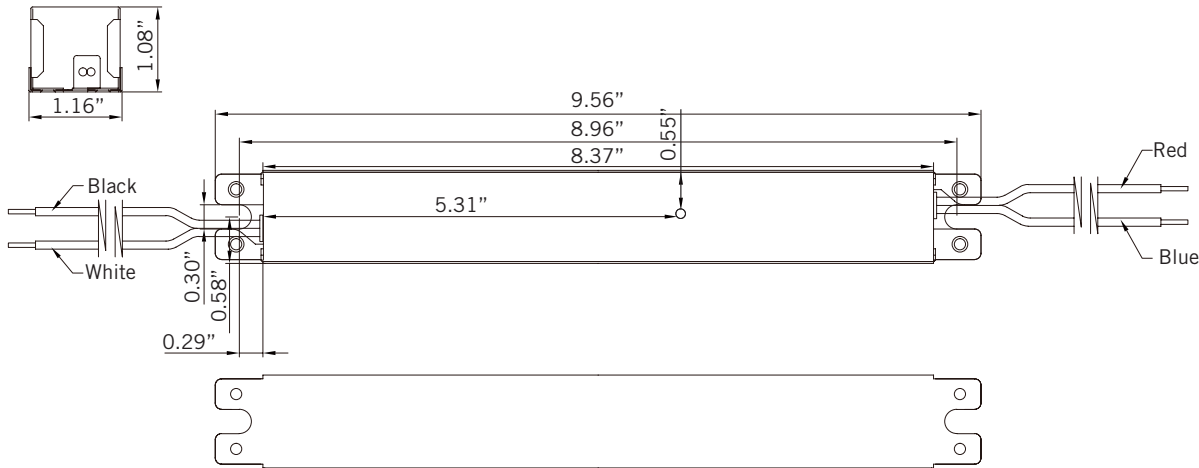
### ENVIRONMENTAL SPECIFICATIONS

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

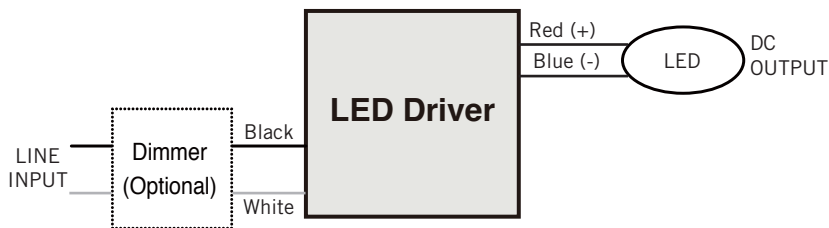
### SAFETY AND EMC COMPLIANCE

UL/cUL	UL 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 #22AWG (Red and Blue)

### ORDERING INFORMATION

ORDER CODE	PACKAGING STYLE	PACK QTY.	ITEM STATUS
KTLD-40-1-XXX-FDIM-L9-CP	Carton Pack	TBD	Quick Ship

### CATALOG NUMBER BREAKDOWN

# KTLD-40-1-XXX-FDIM-L9-CP

Keystone Technologies LED Driver	Max. Output 120 Wattage	Input Current	Output Current	Phase Control Dimming	Case Style	Packaging Style
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