



# KTLD-35-UV-PS850-42-VDIM-LM1

## CONSTANT CURRENT LED DRIVER



### DESCRIPTION

LED Driver | 35W | 120-277V Input | 700, 750, 800 or 850mA Output

<b>TOTAL POWER:</b> 35W
<b>INPUT VOLTAGE:</b> 120~277Vac ± 10%
<b>INPUT FREQUENCY:</b> 50/60 Hz
<b>OUTPUT CURRENT:</b> 700, 750, 800 or 850mA
<b>DIMMING:</b> 0-10V
<b>WARRANTY:</b> 5 Years



### ELECTRICAL SPECIFICATIONS

Input Voltage Range	120~277Vac ± 10%
Frequency	50/60 Hz
Power Factor	> 0.9 under 120~277Vac input with 80~100% load condition (For All Output Currents)
Inrush Current	TBD
Max. Input Current	TBD
THD	< 20% under 120~277Vac input with 80~100% load condition (For All Output Currents)
Load Regulation	± 2%
Line Regulation	± 2%
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	< 2W
Ripple & Noise (pk-pk)	< 10%
Withstand Voltage	Input to output, 2,800Vdc, 2mA
Leakage Current	Maximum 0.5mA at 277Vac, 60Hz input
Minimum Dim %	~10% Dimming
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> </ul>

### PRODUCT SPECIFICATIONS

Catalog Number	Output Current	Output Voltage	Output Power	OCV	Typical Efficiency at 120V	Typical Efficiency at 240V	Typical Efficiency at 277V	Remote Mounting Distance (#18 AWG)	Class 2	
									US	Canada
KTLD-35-UV-PS850-42-VDIM-LM1	700mA	20-42V	29.4W	47V	89%	90%	90%	44 ft	✓	✓
	750mA	20-42V	31.5W							
	800mA	20-42V	33.6W							
	850mA	20-42V	35.7W							

### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40°C/-40°F to 60°C/140°F
Storage Temperature	-40°C/-40°F to 85°C/185°F
Humidity	5% to 95%
MTBF	345,000 hours at 40°C/104°F ambient (~70°C/158°F Case temp)
Life Rating	85,000 hours at 120Vac input, 100% load and 60°C/140°F case temperature
Maximum Case Temperature	90°/194°F

### SAFETY AND EMC COMPLIANCE

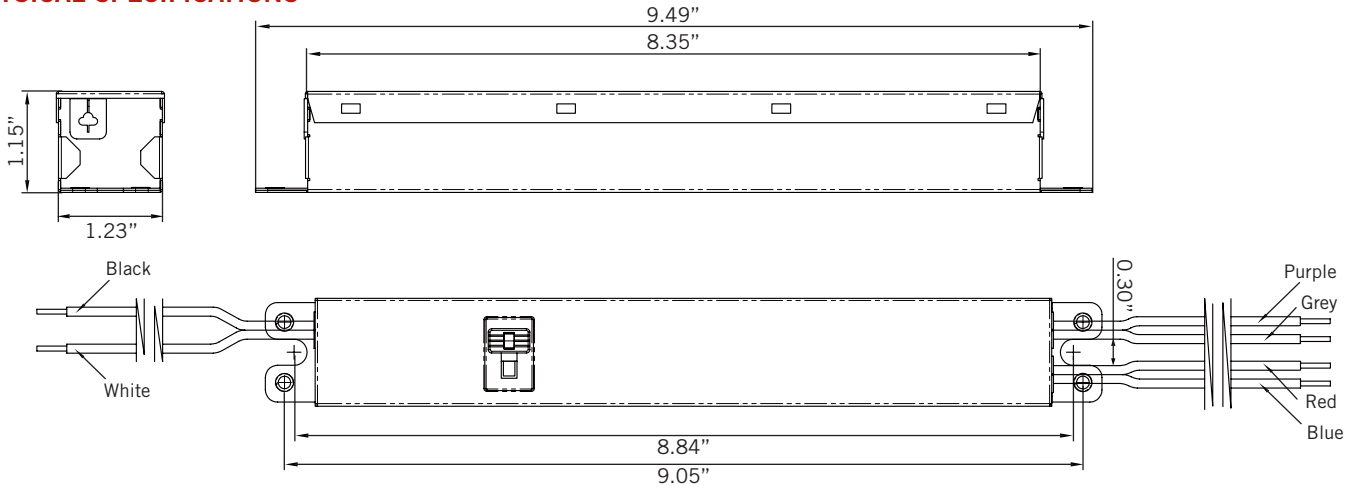
UL/cUL	UL 8750, Class P
CE	EN61347-1, EN61347-2-13
FCC, 47CFR Part 15	ANSI C63.4:2009 Class B (Consumer Limit)
EN61000-3-2	Harmonic Current Emissions Class C



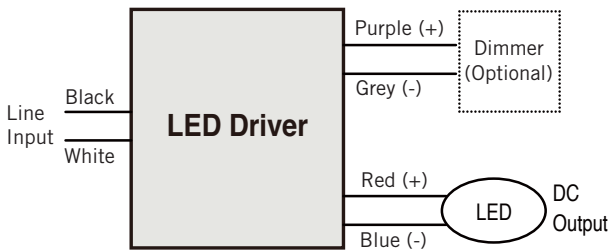
# KTLD-35-UV-PS850-42-VDIM-LM1

## CONSTANT CURRENT LED DRIVER

### PHYSICAL SPECIFICATIONS



### WIRING DIAGRAM

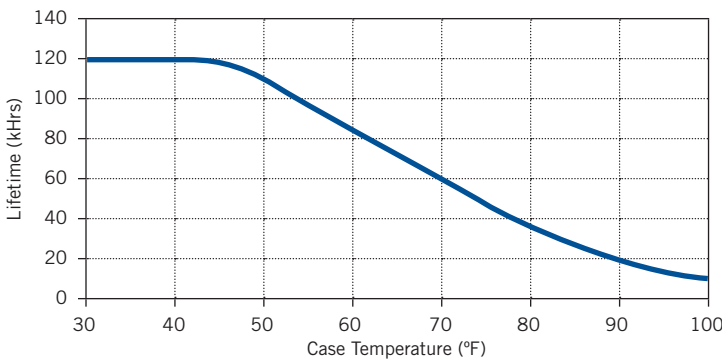


### WIRING SPECIFICATIONS

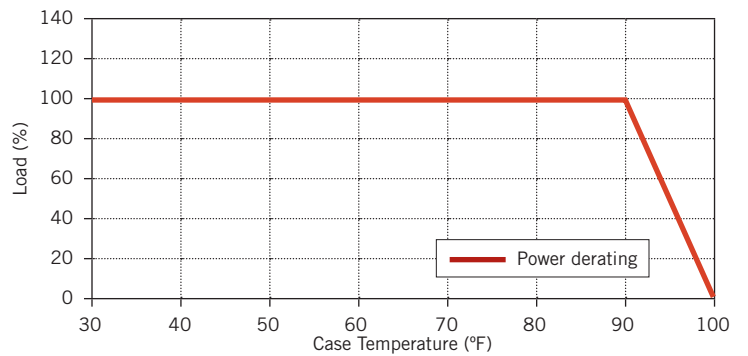
<b>INPUT</b>	12", UL 1316 #18AWG (Black and White)
<b>OUTPUT</b>	12", UL 1316 #18AWG (Red and Blue)
<b>DIMMING</b>	12", UL 1316/1430 #22AWG (Purple and Grey)

### PERFORMANCE SPECIFICATIONS

#### LIFETIME VS CASE TEMPERATURE



#### POWER DERATING VS CASE TEMPERATURE

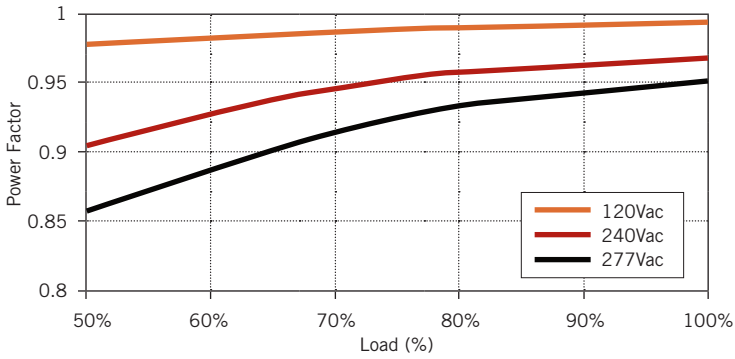




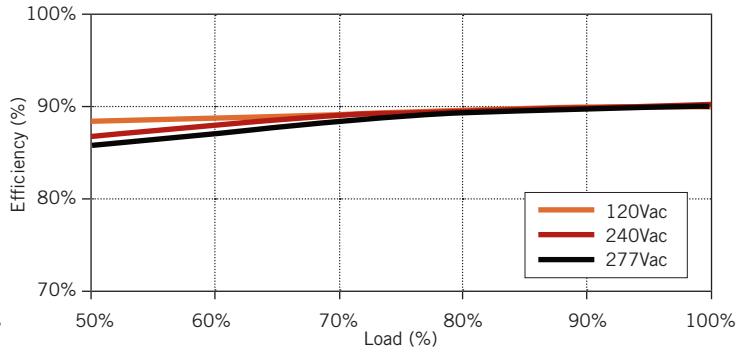
# KTLD-35-UV-PS850-42-VDIM-LM1

## CONSTANT CURRENT LED DRIVER

**POWER FACTOR VS LOAD**



**EFFICIENCY VS LOAD**



**ORDERING INFORMATION**

ORDER CODE	PACKAGING STYLE	PACK QTY.	ITEM STATUS
KTLD-35-UV-PS850-42-VDIM-LM1	Carton Pack	TBD	Quick Ship

**CATALOG NUMBER BREAKDOWN**

# KTLD-35-UV-PS850-42-VDIM-LM1

1
2
3
4
5
6
7
8

- 1** Keystone Technologies LED Driver
- 2** Max. Output Wattage
- 3** 120-277V Input
- 4** Power Select Series
- 5** Max. Output Current
- 6** Max. Output Voltage
- 7** 0-10V Dimming
- 8** Case Style