



KTLD-25-UV-PS600-42-VDIM-LS3

CONSTANT CURRENT LED DRIVER

DESCRIPTION

LED Driver | 25W | 120-277Vac Input
450/500/550/600mA Output Current | 20-42Vdc Output Voltage



Class P Class 2



RoHS Compliant



10 YEAR LIMITED WARRANTY



ELECTRICAL SPECIFICATIONS

Input Voltage Range	120-277Vac $\pm 10\%$
Frequency	50/60 Hz
Power Factor	>0.9 at 80-100% Load Conditions
Inrush Current	$<20A$ at 120Vac Input
Max. Input Current	0.28A at 120Vac Input
THD	$<20\%$ for 80-100% Load Conditions at 120Vac Input
Load Regulation	$\pm 2\%$
Line Regulation	$\pm 2\%$
Output Tolerance	$\pm 5\%$ at Full Load Condition
Turn-On Delay Time	$<0.5s$ at Full Load Condition
Overshoot	$<10\%$ at Full Load Condition
No Load Power Consumption	$<1W$
Ripple and Noise (pk-pk)	$<10\%$
Surge Rating	2.5kV, ANSI/IEEE C62.41
Dimming	0-10V Dimming, Dim to Off
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.

PRODUCT SPECIFICATIONS DETAILED

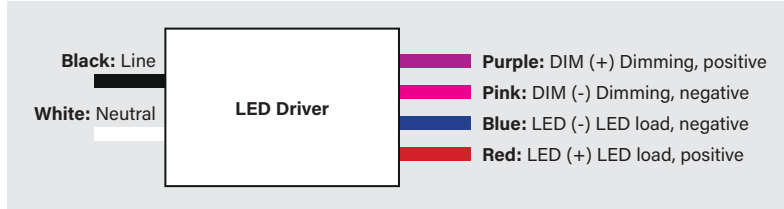
Catalog Number	Output Current	Max. Output Power	Output Voltage	Typical Efficiency at 120V	Typical Efficiency at 277V	Class 2	
						US	Canada
KTLD-25-UV-PS600-42-VDIM-LS3	450mA	18.9W	20-42Vdc	87%	88%	✓	✓
	500mA	21W					
	550mA	23.1W					
	600mA	25.2W					

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WIRING SPECIFICATIONS

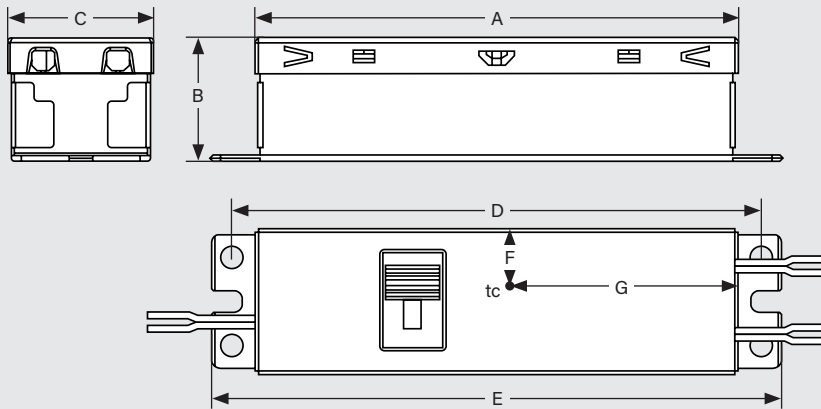
WIRING DIAGRAM



Input	12", UL 1015 #18AWG (Black and White)
Output	12", UL 1569 #18AWG (Red and Blue)
Dimming	12", UL 1569 #22AWG (Purple and Pink)

PHYSICAL SPECIFICATIONS

KTLD-25-UV-PS600-42-VDIM-LS3



LS3 Case	
A	4.23"
B	0.95"
C	1.30"
D	4.65"
E	5.00"
F	0.58"
G	2.02"

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-40°C/-40°F to 50°C/122°F
Storage Temperature	-40°C/-40°F to 80°C/176°F
Humidity	10% to 90%
MTBF	>200,000 Hours, Full Load at 25°C/77°F Ambient Temperature
Life Rating	>50,000 Hours, Full Load at 75°C/167°F Case Temperature
Maximum Case Temperature	90°C/194°F
Maximum Case Temperature (tc) for 5-Year Warranty	75°C/167°F

SAFETY AND EMC COMPLIANCE

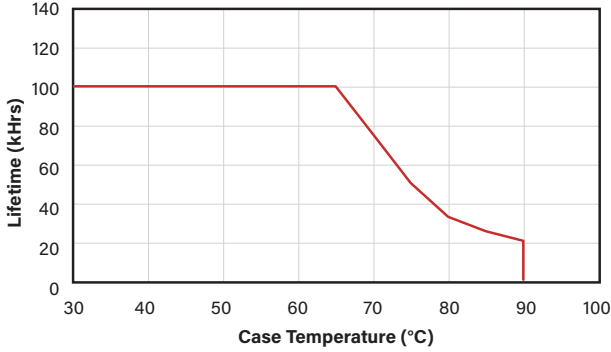
UL/cUL	UL 8750 Class P CAN/CSA-C22.2 No. 250.13
FCC, 47CFR Part 15	ANSI C63.4:2014 - Class B
EN61000-3-2	Harmonic Current Emissions Class C

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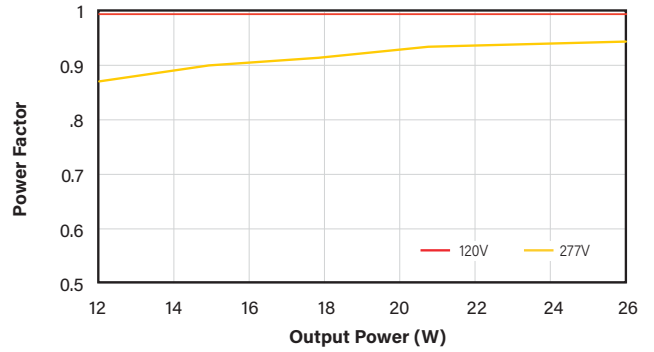
CONSTANT CURRENT LED DRIVER

CHARACTERISTIC CURVES

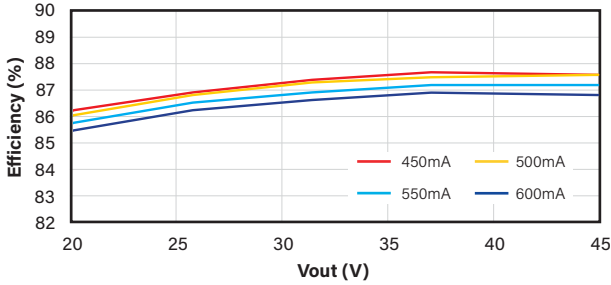
LIFETIME VS CASE TEMPERATURE



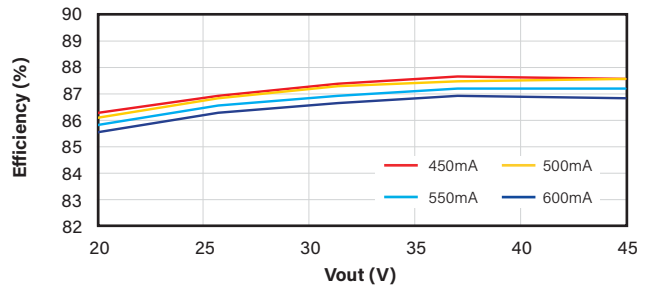
POWER FACTOR VS OUTPUT POWER



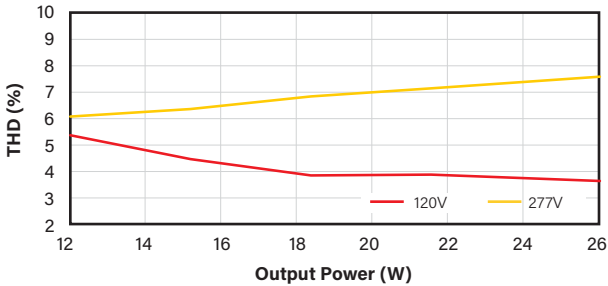
EFFICIENCY (120V)



EFFICIENCY (277V)



THD VS OUTPUT POWER



ORDERING INFORMATION

Catalog Number	Packaging Style	Pack QTY	Item Status	UPC	Easy Code
KTLD-25-UV-PS600-42-VDIM-LS3	Carton Pack	40	Quick Ship	843654181035	OOL-96

CATALOG NUMBER BREAKDOWN

KTLD-25-UV-PS600-42-VDIM-LS3

1 2 3 4 5 6 7 8

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