KTLD-100-UV-PS1800-54-VDIM-LS5

CONSTANT CURRENT LED DRIVER

DESCRIPTION

LED Driver | 96W | 120–277Vac Input
1500/1600/1700/1800mA Output Current | 30-54Vdc Output Voltage

c UL us LISTED **Class P** **Class 2** RoHS Compliant TRUSTED NB WARRANTY **10 YEAR LIMITED WARRANTY**



ELECTRICAL SPECIFICATIONS

Input Voltage Range	120–277Vac ±10%
Frequency	50/60 Hz
Power Factor	>0.9 at 80-100% Load Conditions
Inrush Current	<40A at 120Vac Input
Max. Input Current	1.09A at 120Vac Input
THD	<20% for 80-100% Load Conditions at 120Vac Input
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	<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

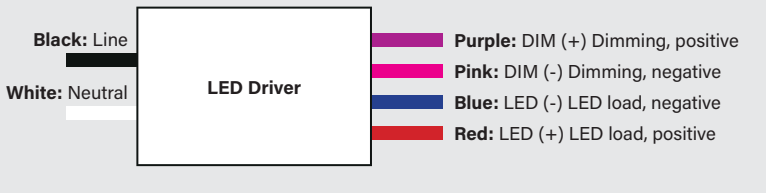
Catalog Number	Output Current	Max. Output Power	Output Voltage	Typical Efficiency at 120V	Typical Efficiency at 277V	Class 2	
						US	Canada
KTLD-100-UV-PS1800-54-VDIM-LS5	1500mA	81W	30-54Vdc	89%	90%	✓	✓
	1600mA	86.4W					
	1700mA	91.8W					
	1800mA	97.2W					

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WIRING SPECIFICATIONS

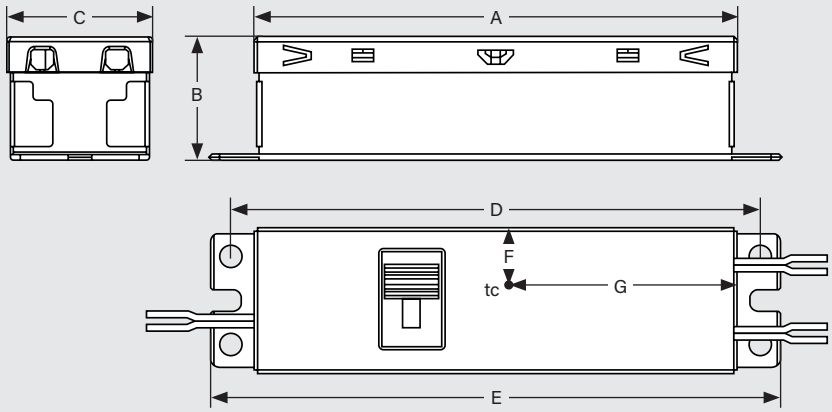
WIRING DIAGRAM



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-100-UV-PS1800-54-VDIM-LS5



LS5 Case	
A	8.48"
B	1.11"
C	1.31"
D	8.90"
E	9.55"
F	0.58"
G	3.57"

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

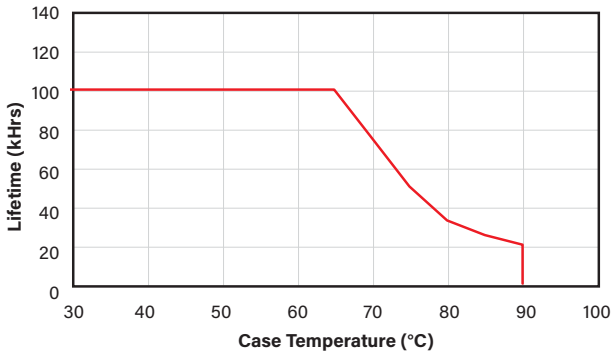
UL/cUL	UL 8750 Class P CAN/CSA-C22.2 No. 250.13
FCC, 47CFR Part 15	ANSI C63.4:2014 - Class B
EN61000-3-2	Harmonic Current Emissions Class C

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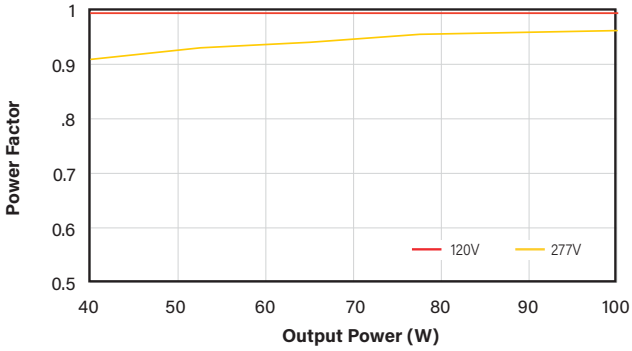
CONSTANT CURRENT LED DRIVER

CHARACTERISTIC CURVES

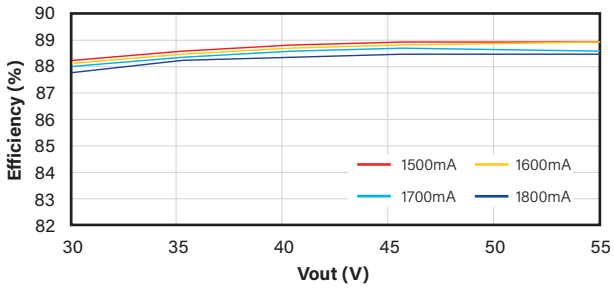
LIFETIME VS CASE TEMPERATURE



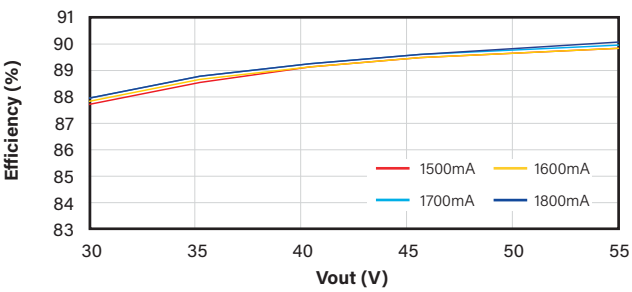
POWER FACTOR VS OUTPUT POWER



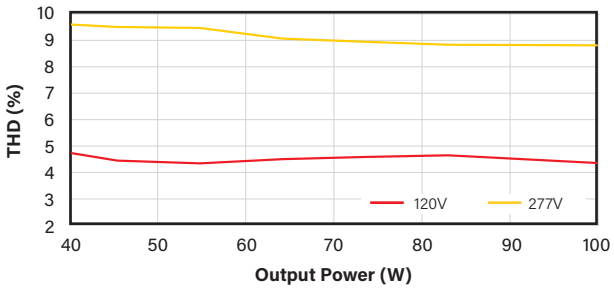
EFFICIENCY (120V)



EFFICIENCY (277V)



THD VS OUTPUT POWER



ORDERING INFORMATION

Catalog Number	Packaging Style	Pack QTY	Item Status	UPC	Easy Code
KTLD-100-UV-PS1800-54-VDIM-LS5	Carton Pack	20	Quick Ship	843654181103	XGJ-12

CATALOG NUMBER BREAKDOWN

KTLD-100-UV-PS1800-54-VDIM-LS5

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**