


**SMART CURRENT
FLEX**

KTLD-85-UV-P2300-55-VDIM-XX-LT2

CONSTANT VOLTAGE LED DRIVER

DESCRIPTION

LED Driver | 85W | 120-277V Input | 230-2300mA Programmable Output Current

Class P



RoHS
Compliant



10 YEAR
LIMITED WARRANTY

TOTAL POWER: 85W	MAXIMUM OUTPUT CURRENT: 5000mA
INPUT VOLTAGE: 120-277Vac $\pm 10\%$	OUTPUT CURRENT: 5A
INPUT FREQUENCY: 50/60 Hz	WARRANTY: 10 Year Limited



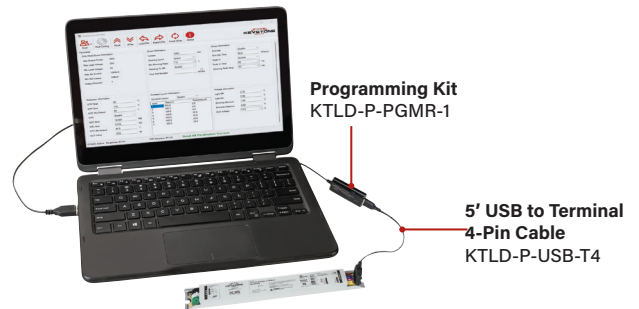
PRODUCT FEATURES

- Linear Form Factor, Metal Casing
- 0-10V Dimming, Compliant with ANSI C137.1
- True 1% Dimming over full Output Current Range
- Programmable Output in 1mA Increments
- Flicker Free, T24: JA8 & IEE1789 Compliant
- Programmable Settings via Keystone Programming Kit
- For Indoor Applications
- Class A Sound Rating
- Optional 12-24V Programmable Aux Power

PROGRAMMING FEATURES

- Output Current Set Range: 230-2300 mA
- Minimum Output Current: 2.3mA
- Minimum Dimming Level (1-10%, 0.5% Increments)
- Dimming Curve (Linear, Log, Square)
- Dim to Off (Enable/Disable)
- Luminous Decay Compensation (Enable/Disable)
- End of Life Feedback (Enable/Disable)
- Thermal Foldback Temperature Selection

WHAT'S NEEDED? The Programmable LED Driver, the Programming Kit, the Connection Cable, and a computer.



ELECTRICAL SPECIFICATIONS

Input Voltage Range	120-277Vac $\pm 10\%$
Frequency	50/60 Hz
Power Factor	>0.95 at 20-100% Load, $V_{in@120Vac}$ or 60-100% Load, $V_{in@277Vac}$
Inrush Current	$22.2 A_{peak}$, $i^2t = 0.92 A^2s$ @ 120V, $51.2 A_{peak}$, $i^2t = 0.472$ @ 277V
Max. Input Current	<0.789 ($V_{in@120Vac}$)
THD	$<20\%$ for 20-100% Load, $V_{in@120Vac}$ or 60-100% Load, $V_{in@277Vac}$
Load Regulation	$\pm 5\%$
Line Regulation	$\pm 1\%$
Output Tolerance	$\pm 5\%$ at full load condition
Turn-On Delay Time	<0.5 seconds
Overshoot	$<10\%$ at full load condition
No Load Power Consumption	$<2W$
Ripple and Noise (pk-pk)	$<10\%$
Leakage Current	<0.75 mA at $V_{in@277Vac}$, 60Hz
Protection	Over Voltage Protection: Latch 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 circuit and will auto recover after the fault mode is removed. Over Temperature Protection: Protection will trigger when driver overheats and auto-recovery when cooled down.
Surge Rating	2.5kV, ANSI/IEEE C62.41
Dimming Sink Current	200uA



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PRODUCT SPECIFICATIONS

Max. Output Power	Output Current	Output Voltage	OCV	Typical Efficiency at 120V	Typical Efficiency at 277V	Remote Mounting Distance (#18 AWG)	Class 2	
							US	Canada
85W	230–2300mA	10–55V	60V	88%	90%	24 ft.	✓	✓

OPTIONAL AUX POWER SPECIFICATIONS

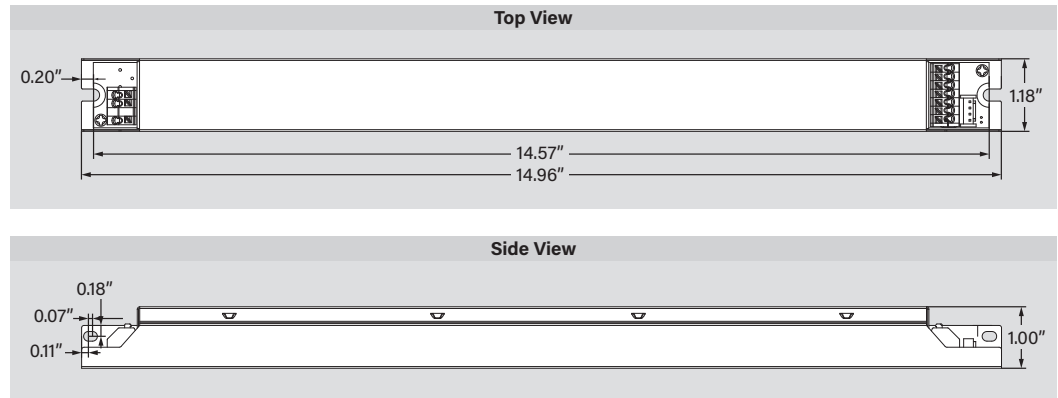
Max. Output Power	Voltage Range
1W	12-24V Programmable

WIRING SPECIFICATIONS

INPUT	Terminal Block
OUTPUT	Terminal Block
DIMMING	Terminal Block

PHYSICAL SPECIFICATIONS

	LENGTH	14.96"
	WIDTH	1.18"
	HEIGHT	1.0"
	MOUNTING	14.57"
	CASE STYLE	LT2
	CASE MATERIAL	Metal



Wiring			
KTLD-85-UV-P2300-55-VDIM-LT2 (without AUX)		KTLD-85-UV-P2300-55-VDIM-CR-LT2 (with AUX)	
Black: Line		Black: Line	
White: Neutral		White: Neutral	
Green: Ground		Green: Ground	
Blue: LED (-) LED load, negative		Blue: LED (-) LED load, negative	
Red: LED (+) LED load, positive		Red: LED (+) LED load, positive	
Black: NC No Connection		Black: NC No Connection	
Purple 1: DIM (+) Dimming, positive		Purple 1: DIM (+) Dimming, positive	
Purple 2: NC No Connection		Purple 2: NC No Connection	
Pink: DIM (-) Dimming, negative		Pink: DIM (-) / AUX (-) Dimming & AUX, negative	
Yellow: NC No Connection		Yellow: AUX (+) AUX, positive	

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C/-22°F to 55°C/131°F
Storage Temperature	-40°C/-40°F to 85°C/185°F
Humidity	5% to 95% RH
MTBF	>200,000 hours at Full Load, 25°C/77°F Ambient Temperature
Life Rating	>50,000 Hours at Full Load, 80°C/176°F Case Temperature
Maximum Case Temperature	90°C/194°F
Maximum Case Temperature (tc) for 5-Year Warranty	80°C/176°F

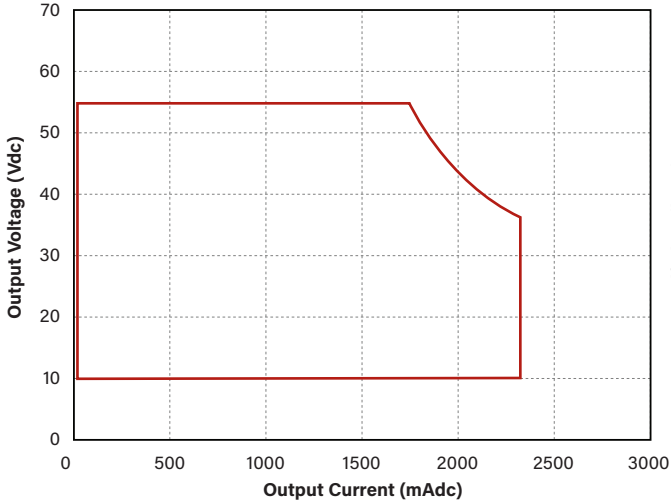
SAFETY AND EMC COMPLIANCE

UL/cUL	UL 8750 Class P CAN/CSA-C22.2 No. 250.13
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

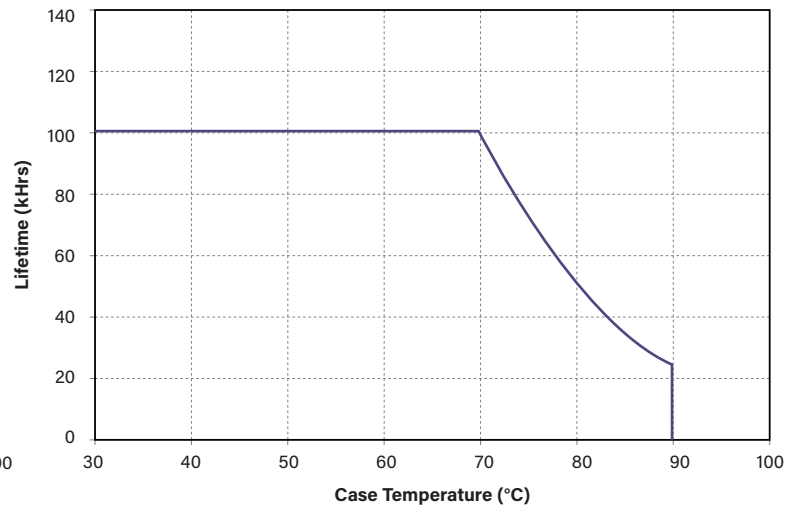
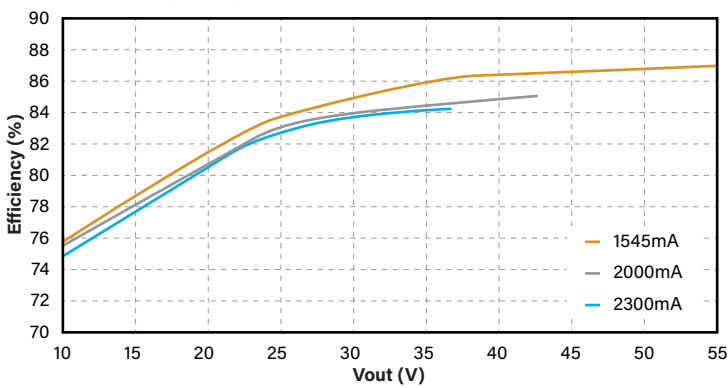
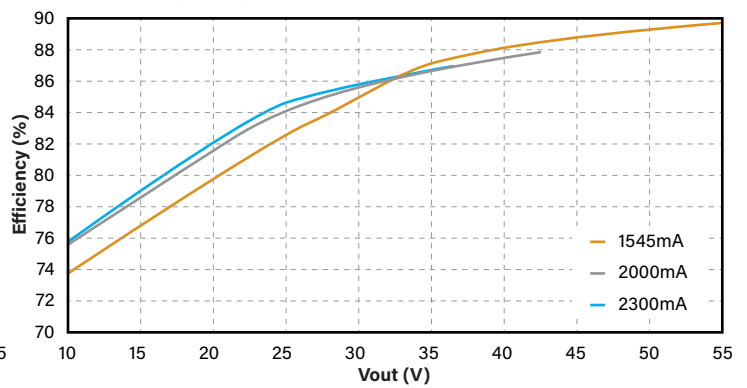
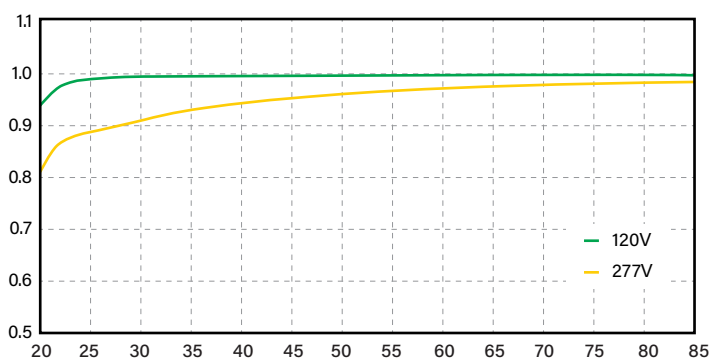
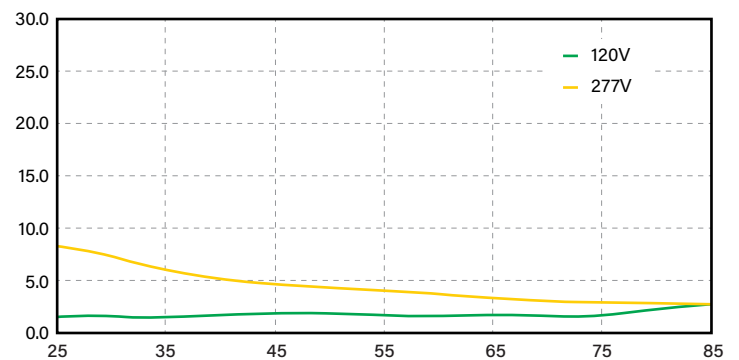

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LED DRIVER OUTPUT WINDOW


Note: driver is in constant power mode from 1545mA to 2300mA.

LIFETIME VS CASE TEMPERATURE

EFFICIENCY (120V)

EFFICIENCY (277V)

POWER FACTOR vs OUTPUT POWER

THD vs OUTPUT POWER




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ORDERING INFORMATION

ORDER CODE	PACKAGING STYLE	PACK QUANTITY	ITEM STATUS	UPC	EASY CODE
KTLD-85-UV-P2300-55-VDIM-LT2	Carton Pack	35	Quick Ship	843654108810	RUA-27
KTLD-85-UV-P2300-55-VDIM-CR-LT2	Carton Pack	35	Quick Ship	843654159065	LXC-02

CATALOG NUMBER BREAKDOWN

KTLD-85-UV-P2300-55-VDIM-XX-LT2

1 2 3 4 5 6 7 8 9

1 Keystone Technologies LED Driver

2 Max. Output Wattage

3 120-277V Input

4 Programmable

5 Max. Output Current

6 Max. Output Voltage

7 0-10V Dimming

8 Aux Power

9 Case Style

8 Aux Power

	No Aux
CR	Aux