


**SMART CURRENT
FLEX**

KTLD-12-UV-P400-40-CDIM-MC4

CONSTANT CURRENT PROGRAMMABLE LED DRIVER

DESCRIPTION

LED Driver | 12W | 120-277V Input | 100-400mA Programmable Output Current

Class P **10 YEAR LIMITED WARRANTY**

TOTAL POWER: 12W	OUTPUT CURRENT: 100-400mA
INPUT VOLTAGE: 120-277Vac $\pm 10\%$	DIMMING: 0-10V, Reverse & Forward Phase
INPUT FREQUENCY: 50/60 Hz	WARRANTY: 10 Year Limited



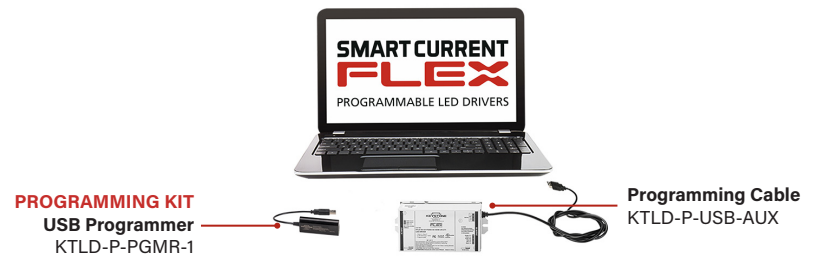
PRODUCT FEATURES

- Micro Case 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
- UL Damp Rated

PROGRAMMING FEATURES

- Output Current Set Range: 100-400mA
- Minimum Output Current: 1.0 mA
- Minimum Dimming Level (1-10%, 0.5% Increments)
- Dimming Curve (Linear, Log)
- Dim to Off (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	>0.9 at 30-100% Load (Vin @ 120Vac), >0.9 at 60-100% Load (Vin @ 277Vac)
Inrush Current	8.0 A _{peak} , i ² t = 0.016 A ² s @ 120V, 15.8 A _{peak} , i ² t = 0.052 A ² s @ 277V
Max. Input Current	<0.14A (Vin @ 120 Vac)
THD	<20% at 30-100% Load, Vin @ 120Vac and 60-100% Load, Vin @ 270Vac
Load Regulation	<5%
Line Regulation	<1%
Output Tolerance	$\pm 5\%$ at Full Load Condition
Turn-On Delay Time	<0.5 seconds, 100-400mA, Cold Start
Overshoot	<10% at Full Load Condition
No Load Power Consumption	<1W
Ripple and Noise (pk-pk)	<10%
Leakage Current	<0.75mA, Vin @ 277VAC, 60Hz
Protection	<ul style="list-style-type: none"> • Over Voltage Protection: Hiccup mode. Protection will trigger when load voltage exceed specified output voltage and will auto recover after the fault mode is removed. • Over Current Protection: Hiccup mode. Protection will trigger when load current exceed 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 overheat and auto-recovery when cooled down.
Surge Rating	2.5 kV Ring Wave, 2 kV Combination Wave
Dimming Sink Current	200uA



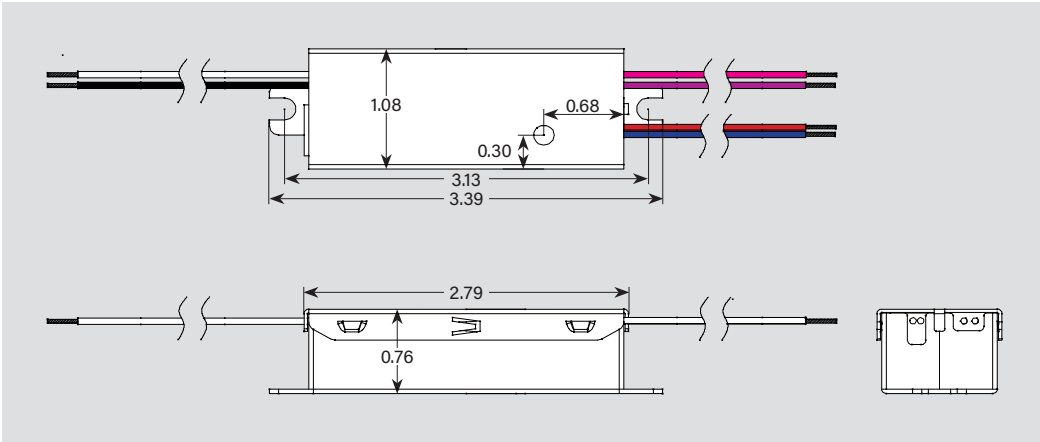
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PRODUCT SPECIFICATIONS

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
12W	100-400mA	10-40V	60V	84%	83%	24 ft.	✓	✓

PHYSICAL SPECIFICATIONS



WIRING SPECIFICATIONS

INPUT	8", UL 1430 #18AWG (Black and White)
OUTPUT	8", UL 1430 #22AWG (Red and Blue)
DIMMING	8", UL 1430 #22AWG (Purple and Pink)

Wiring Diagram

KTLD-12-UV-P400-40-CDIM-MC4

White: Neutral

Black: Line

Red: LED (+) LED load, positive
 Blue: LED (-) LED load, negative
 Purple: DIM (+) Dimming, positive
 Pink: DIM (-) Dimming, negative

ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-25°C/-13°F to 50°C/122°F
Storage Temperature	-40°C/-40°F to 85°C/185°F
Humidity	5% to 95% RH
MTBF	>200,000 Hours, Full Load at 25°C/77°F Ambient Temperature
Life Rating	>50,000 Hours, Full Load at 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

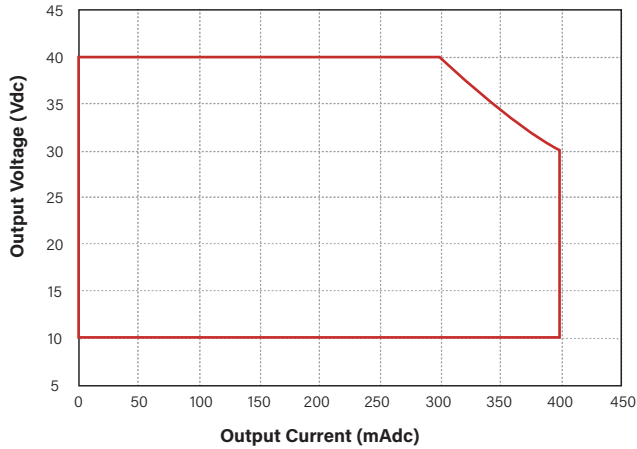
UL/cUL	UL 8750 CAN/CSA-C22.2 No. 250.13
CE	EN61347-1, EN61347-2-13
FCC, 47CFR Part 15	ANSI C63.4:2009 Class B (consumer limit)


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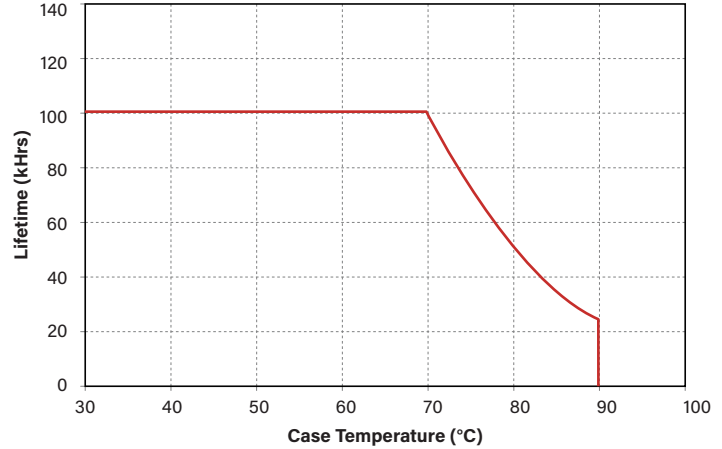
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CONSTANT CURRENT PROGRAMMABLE LED DRIVER

LED DRIVER OUTPUT WINDOW



LIFETIME VS CASE TEMPERATURE



ORDERING INFORMATION

Order Code	Packaging Style	Pack Quantity	Item Status	UPC	EASY CODE
KTLD-12-UV-P400-40-CDIM-MC4	Carton Pack	80	Quick Ship	843654173832	MZL-69

CATALOG NUMBER BREAKDOWN

KTLD-12-UV-P400-40-CDIM-MC4

1

2

3

4

5

6

7

8

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