



**SMART CURRENT  
FLEX**

# KTLD-55-UV-P2000-55-VDIM-XX-CT1-XXX

## CONSTANT CURRENT PROGRAMMABLE LED DRIVER

### DESCRIPTION

LED Driver | 55W | 120-277V Input | 200-2000mA Programmable Output Current

Class P **10 YEAR LIMITED WARRANTY**



<b>TOTAL POWER:</b> 55W	<b>OUTPUT CURRENT:</b> 200-2000mA
<b>INPUT VOLTAGE:</b> 120-277Vac ±10%	<b>DIMMING:</b> 0-10V
<b>INPUT FREQUENCY:</b> 50/60 Hz	<b>WARRANTY:</b> 10 Year Limited

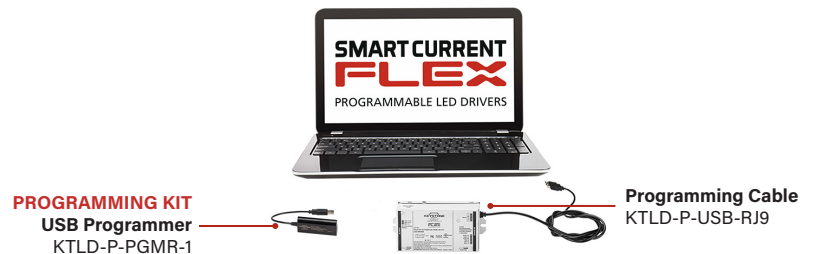
### PRODUCT FEATURES

- Compact 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
- Optional Rear Junction Studs

### PROGRAMMING FEATURES

- Output Current Set Range: 200-2000mA
- Minimum Output Current: 1.0 mA
- 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

<b>Input Voltage Range</b>	120-277Vac ±10%
<b>Frequency</b>	50/60 Hz
<b>Power Factor</b>	>0.95 at 20-100% Load (Vin @ 120Vac), >0.90 at 40-100% Load (Vin @ 277Vac)
<b>Inrush Current</b>	28.4 A <sub>peak</sub> , i <sup>2</sup> t = 0.102 A <sup>2</sup> s @ 120V, 57.6 A <sub>peak</sub> , i <sup>2</sup> t = 0.425 A <sup>2</sup> s @ 277V
<b>Max. Input Current</b>	<0.6A (Vin @ 120 Vac), <0.28A (Vin @ 277 Vac)
<b>THD</b>	<20% at 40-100% Load, Vin @ 120-277Vac
<b>Load Regulation</b>	± 3.5%
<b>Line Regulation</b>	± 1%
<b>Output Tolerance</b>	± 5% at Full Load Condition
<b>Turn-On Delay Time</b>	<0.5 seconds, 200-2000mA, Cold Start
<b>Overshoot</b>	<10% at Full Load Condition
<b>No Load Power Consumption</b>	<1.5W
<b>Ripple and Noise (pk-pk)</b>	<10%
<b>Withstand Voltage</b>	Input to output, 2,800Vdc, 2mA
<b>Leakage Current</b>	<0.75mA, Vin @ 277VAC, 60Hz
<b>Protection</b>	<ul style="list-style-type: none"> <li>• <b>Over Voltage Protection:</b> Hiccup mode. Protection will trigger when load voltage exceed 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 exceed 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 circuit and will auto recover after the fault mode is removed.</li> <li>• <b>Over Temperature Protection:</b> Protection will trigger when driver overheat and auto-recovery when cooled down.</li> </ul>
<b>Surge Rating</b>	2.5 kV Ring Wave, 2 kV Combination Wave
<b>Dimming Sink Current</b>	200uA

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## CONSTANT CURRENT PROGRAMMABLE LED DRIVER

### 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
55W	200-2000mA	10-55V	60V	89% @ 1000mA, 55V	90% @ 1000mA, 55V	38 ft.	✓	✓

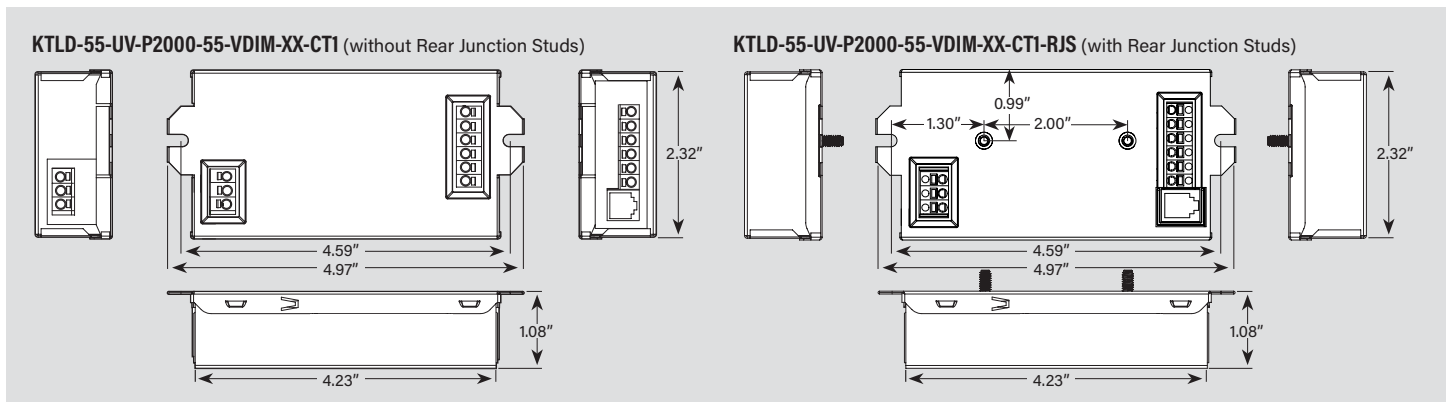
### OPTIONAL AUX POWER SPECIFICATIONS

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

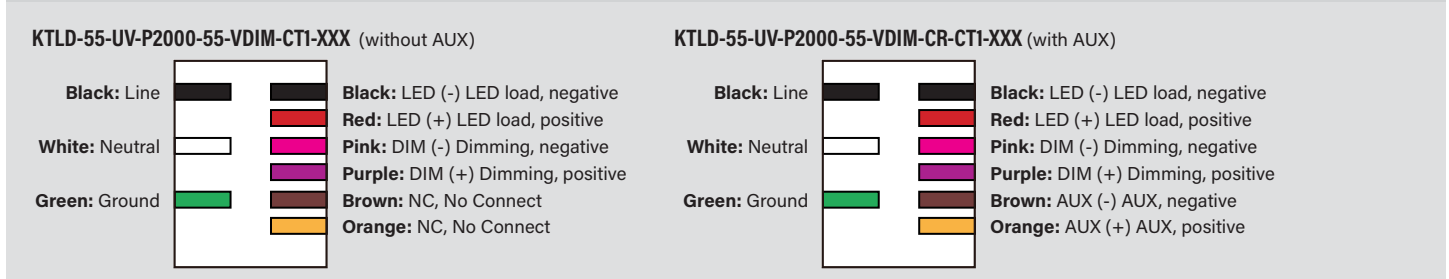
### WIRING SPECIFICATIONS

<b>INPUT</b>	Terminal Block, Recommend Use with 18AWG Wiring
<b>OUTPUT</b>	Terminal Block, Recommend Use with 18-20AWG Wiring
<b>DIMMING</b>	Terminal Block, Recommend Use with 18-20AWG Wiring

### PHYSICAL SPECIFICATIONS



### Wiring Diagram



### ENVIRONMENTAL SPECIFICATIONS

Operating Temperature	-30°C/-22°F to 50°C/122°F
Storage Temperature	-40°C/-40°F to 85°C/185°F
Humidity	10% to 90% 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

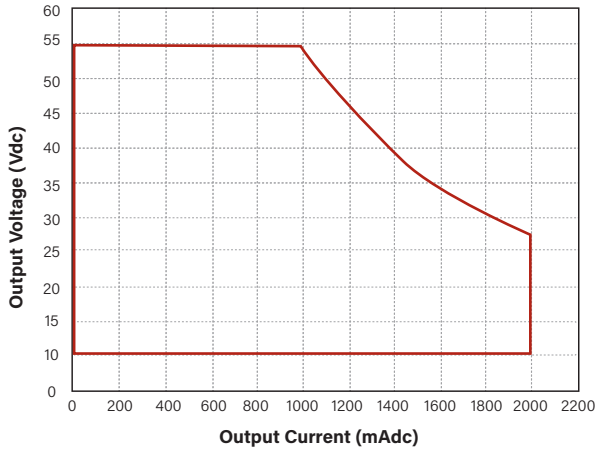
UL/cUL	UL 8750 Class P CAN/CSA-C22.2 No. 250.13
CE	EN61347-1, EN61347-2-13
FCC, 47CFR Part 15	ANSI C63.4:2009 Class B (consumer limit)
EN61000-3-2	Harmonic Current Emissions Class C



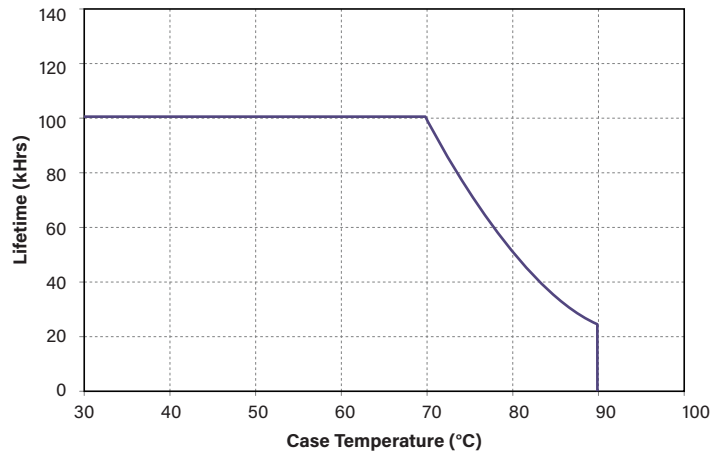
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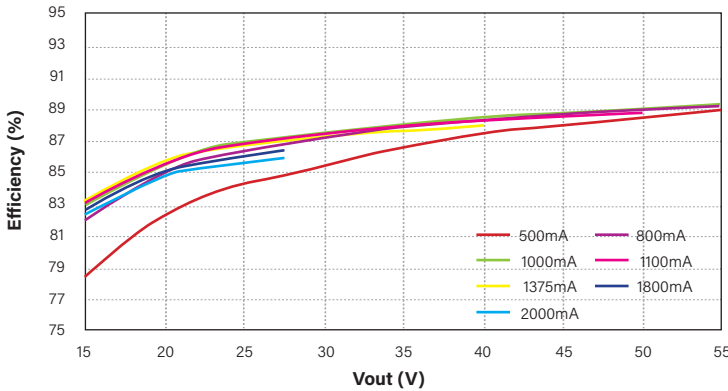
**LED DRIVER OUTPUT WINDOW**



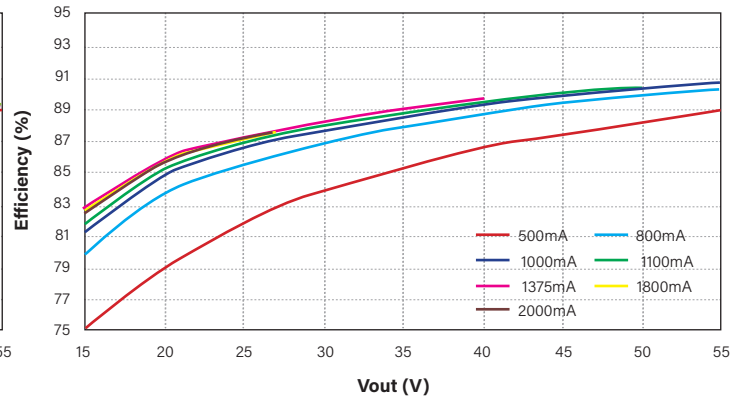
**LIFETIME VS CASE TEMPERATURE**



**EFFICIENCY (120V)**



**EFFICIENCY (277V)**



**ORDERING INFORMATION**

Order Code	Packaging Style	Pack Quantity	Item Status	UPC	EASY CODE
KTLD-55-UV-P2000-55-VDIM-CT1	Carton Pack	48	Quick Ship	843654166254	IYD-11
KTLD-55-UV-P2000-55-VDIM-CR-CT1	Carton Pack	48	Quick Ship	843654166285	EDF-29
KTLD-55-UV-P2000-55-VDIM-CT1-RJS	Carton Pack	48	Quick Ship	843654173481	CLF-45
KTLD-55-UV-P2000-55-VDIM-CR-CT1-RJS	Carton Pack	48	Special Order Item	843654175140	RNR-81

**CATALOG NUMBER BREAKDOWN**

# KTLD-55-UV-P2000-55-VDIM-XX-CT1-XXX

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>	<b>8</b>	<b>9</b>	<b>10</b>								
<b>1</b> Keystone Technologies LED Driver	<b>2</b> Max. Output Wattage	<b>3</b> 120-277V Input	<b>4</b> Programmable	<b>5</b> Max. Output Current	<b>6</b> Max. Output Voltage	<b>7</b> 0-10V Dimming	<b>8</b> Aux Power	<b>9</b> Case Style	<b>10</b> Rear Junction Studs								
							<table border="1" style="margin: auto;"> <tr><td></td><td>No Aux</td></tr> <tr><td>CR</td><td>Aux</td></tr> </table>		No Aux	CR	Aux	<table border="1" style="margin: auto;"> <tr><td></td><td>No Studs</td></tr> <tr><td>RJS</td><td>Rear Junction Studs</td></tr> </table>		No Studs	RJS	Rear Junction Studs	
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	No Studs																
RJS	Rear Junction Studs																