

# KTLD-10-1N-XXV-F3 CONSTANT VOLTAGE LED DRIVER









#### **DESCRIPTION**

LED Driver I 10W I 120V Input I 12-24V Output

TOTAL POWER: 10W	SAFTEY COMPLIANCE: UL 8750 and UL879
INPUT VOLTAGE: 120Vac ±10%	LOCATION TYPE: IP20 design for dry and damp loactions
INPUT FREQUENCY: 50/60 Hz	OUTPUT VOLTAGE: 12-24V
NUMBER OF OUTPUTS: One	WARRANTY: 5 Years

#### **ELECTRICAL SPECIFICATIONS**

Input Voltage Range	120Vac ± 10%
Frequency	50/60 Hz
Power Factor	> 0.5 under 120Vac input with 80~100% load condition (for all output voltages)
Inrush Current	7A @120V
Max. Input Current	0.19A @120V
THD	< 200% under 120Vac input with 80~100% load condition (for all output voltages)
Load Regulation	± 2%
Line Regulation	± 1%
Voltage Tolerance	± 5% at full load condition
Turn-On Delay Time	< 0.75s at full load condition
Overshoot	< 10% at full load condition
No Load Power Consumption	< 1W
Ripple and Noise (pk-pk)	< 10%
Withstand Voltage	Input to output, 2,800Vdc, 2mA
Leakage Current	Maximum 0.5mA at 120Vac, 60Hz input
	• 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.
Protection	<ul> <li>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.</li> </ul>
	• Short Circuit Protection: Hiccup mode. Protection will trigger when short circuited and will auto recover after the fault mode is removed.

#### **PRODUCT SPECIFICATIONS**

Catalog Number	Max.	Output	Output Voltage		Typical	Remote Mounting	Class 2	
	Output Current	•		OCV	Efficiency at 120V	Distance (#18 AWG)	US	Canada
KTLD-10-1N-12V-F3	10W	0-0.83A	12V	16V	81%	46 ft	1	✓
KTLD-10-1N-24V-F3	10W	0-0.42A	24V	28V	83%	91 ft	1	1

# **ENVIRONMENTAL SPECIFICATIONS**

Operating Temperature	-40°C/-40°F to 60°C/140°F
Storage Temperature	-40°C/-40°F to 85°C/185°F
Humidity	5% to 95%
MTBF	583,000 hours at 40°C/104°F ambient (~70°C/~158°C case temp)
Life Rating	80,000 hours at 120Vac input, 100% load and 60°C/140°F case temperature
Maximum Case Temperature	90°C/194°F

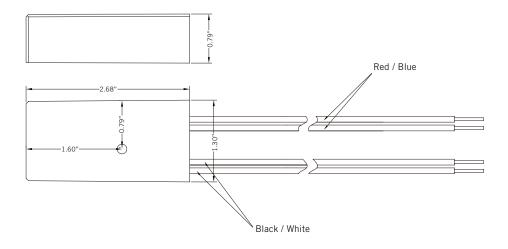
# SAFETY AND EMC COMPLIANCE

UL/cUL	UL 8750, UL879
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

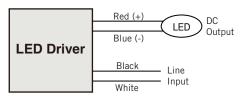


# KTLD-10-1N-XXV-F3 CONSTANT VOLTAGE LED DRIVER

#### **PHYSICAL SPECIFICATIONS**



#### **WIRING DIAGRAM**



#### **WIRING SPECIFICATIONS**

INPUT	12", UL 1316 #18AWG (black and white)
OUTPUT	12", UL 1316 #18AWG (red and blue)

### **ORDERING INFORMATION**

ORDER CODE	PACKAGING STYLE	PACK QTY.	ITEM STATUS
KTLD-10-1N-XXV-F3	Carton Pack	100	Quick Ship

#### **CATALOG NUMBER BREAKDOWN**



- 1 Keystone Technologies LED Driver
- 2 Max. Output Wattage
- **3** 120V Input
- 4 Output Voltage
- 5 Case Style



# KTLD-60-1-12V CONSTANT VOLTAGE LED DRIVER

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#### **DESCRIPTION**

LED Driver | 60W Load | 12V Constant Voltage Output | 120V Input

**DRIVER TYPE:** Constant Voltage LED Driver

MAX. POWER: 60W

**INPUT VOLTAGE:** 120Vac ±10%

OUTPUT VOLTAGE: 12Vdc
DIMMING: Fixed Output

**WARRANTY:** 5 Years

#### **PRODUCT FEATURES**

- Meets FCC 47 CFR Part 15 (Class B) Consumer Limits
- Over Current and Short Circuit Protection
- Type 1 Outdoor, Suitable for Dry and Damp Locations
- UL 879, UL 8750 Recognized Component LED Power Unit and Signage Application
- Class 2 Output
- 90°C/194°F Maximum Case Temperature
- Input Frequency: 50/60 Hz
- Listed in the Sign Component Manual (SAM)

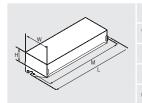
# SPECIFICATIONS

### **ELECTRICAL SPECIFICATIONS**

	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS				FEATURES	
Family	Input Voltage	Input Power	Power Factor	Max. Current	Max. Output Power	Max. Current	Min. Current	Output Voltage	Efficiency
60W	120Vac	73W	>0.9	0.68A	60W	5A	OA	12Vdc	82%

### PHYSICAL SPECIFICATIONS

#### **CASE DIMENSIONS**



LENGTH	9.50"
WIDTH	1.70"
HEIGHT	1.18"
MOUNTING	8.90"
CASE STYLE	L5

## **STANDARD LEAD LENGTHS\***

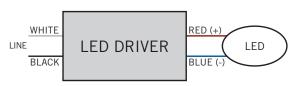
BLACK	12.00"
WHITE	12.00"
BLUE	12.00"
RED	12.00"

\*Consult Keystone for special lead length requirements.

Lead wires are 18 AWG 105 C/600V, solid copper.

**CASE MATERIAL: Steel** 

#### WIRING DIAGRAM



#### HOT SPOT LOCATION



Actual to point is noted on each LED driver label.

Keystone Technologies • 208 Progress Drive, Montgomeryville, PA 18936 • Phone (800) 464-2680 • Fax (888) 966-0556 • www.keystoneballast.com



# KTLD-60-1-12V CONSTANT VOLTAGE LED DRIVER

## **ORDERING INFORMATION**

ORDER CODE	PACKAGING STYLE	PACK QTY.	ITEM STATUS
KTLD-60-1-12V-DP	Distributor Pack	10	Quick Ship
KTLD-60-1-12V-CP	Carton Pack	Pending	Active

# **CATALOG NUMBER BREAKDOWN**





# KTLD-60-UV-12V CONSTANT VOLTAGE LED DRIVER



### **DESCRIPTION**

LED Driver | 60W Load | 12V Constant Voltage Output | 120-277V Input

**DRIVER TYPE:** Constant Voltage LED Driver MAX. POWER: 60W

INPUT VOLTAGE: 120-277Vac ±10%

**OUTPUT VOLTAGE: 12Vdc DIMMING:** Fixed Output WARRANTY: 5 Years



#### PRODUCT FEATURES

- Meets FCC Part 15 Class B (Consumer Limit) at 120V Input and Class A (Non-Consumer Limit) at 277V Input
- Over Current and Short Circuit Protection
- Type 1 Outdoor, Suitable for Dry and Damp Locations
- UL 879, UL 8750 Recognized Component LED Power Unit and Signage Application

- Class 2 Output
- 90°C/194°F Maximum Case Temperature
- Input Frequency: 50/60 Hz
- Listed in the Sign Component Manual (SAM)

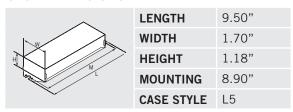
# SPECIFICATIONS

### **ELECTRICAL SPECIFICATIONS**

	INPUT CHARACTERISTICS			OUTPUT CHARACTERISTICS				FEATURES	
Family	Input Voltage	Input Power	Power Factor	Max. Current	Max. Output Power	Max. Current	Min. Current	Output Voltage	Efficiency
60W	120-277Vac	71W	>0.9	0.65A @ 120V 0.29A @ 277V	60W	5A	OA	12Vdc	85%

#### PHYSICAL SPECIFICATIONS

#### **CASE DIMENSIONS**



#### STANDARD LEAD LENGTHS\*

BLACK	12.00"
WHITE	12.00"
BLUE	12.00"
RED	12.00"

<sup>\*</sup>Consult Keystone for special lead length requirements.

Lead wires are 18 AWG 105 C/600V, solid copper.

**CASE MATERIAL: Steel** 

#### WIRING DIAGRAM



#### **HOT SPOT LOCATION**



Actual to point is noted on each LED driver label.

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# KTLD-60-UV-12V CONSTANT VOLTAGE LED DRIVER

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KTLD-60-UV-12V-DP	Distributor Pack	10	Quick Ship
KTLD-60-UV-12V-CP	Carton Pack	Pending	Active

# **CATALOG NUMBER BREAKDOWN**

