LED DRIVER

JINBO

60W WATERPROOF LED DRIVER

Universal 100–277V AC input, 12V DC output, IP67 for indoor & outdoor use.



JINBO 60W Waterproof LED Driver is a constant-voltage power supply for 12V DC LED lighting and signs. It accepts a universal 100–277V AC input and delivers a full 60W output at 90% typical efficiency. Housed in a compact IP67 aluminum enclosure for indoor and outdoor use, it is UL listed, Class 2 rated, and protected against overload and short circuit with automatic recovery. Every unit is 100% full-load burn-in tested.

PRODUCT FEATURES

- Constant Voltage Output: 12V DC
- Input Voltage 100–277V AC
- 60W Rated Output Power
- High Transfer Efficiency
- IP67 Waterproof Aluminum Housing
- Suitable for Indoor & Outdoor Use
- Overload & Short-Circuit Protection
- 100% Full-Load, 100% Burn-In Tested
- UL Listed
- Class 2 & SELV Certified

APPLICATION

- Under-Cabinet Lighting
- LED Strip Lighting
- Display Case Lighting
- Commercial Signage
- Architectural Accent Lighting
- Display Lighting

ELECTRICAL SPECIFICATIONS

- Input Voltage 100–277V AC
- Input Current 230V: 0.5A, 110V: 1.1A
- Output Current 5A DC
- Voltage Output: 12V DC
- Rated Power 60W
- Efficiency 90%
- Ripple & Noise <240mVp-p
- Line / Load Regulation 1% / 1%

INPUT & OUTPUT CONNECTIONS

- Input: Black PVC, 3-Conductor, 18 AWG
- Output: White PVC, 2-Conductor, 18 AWG
- Output Polarity: Red (+), Black (–)
- Lead Length: 8.66" Input & Output
- Cable Diameter: 0.24" ±0.004"

MECHANICAL SPECIFICATIONS

- Housing Aluminum
- IP Rating IP67
- Working Temp. -20°C ~ +50°C

BEYOND™ LED TECHNOLOGY

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Due to continuous product improvement, information in this document is subject to change.

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WHY CHOOSE JINBO LED DRIVER

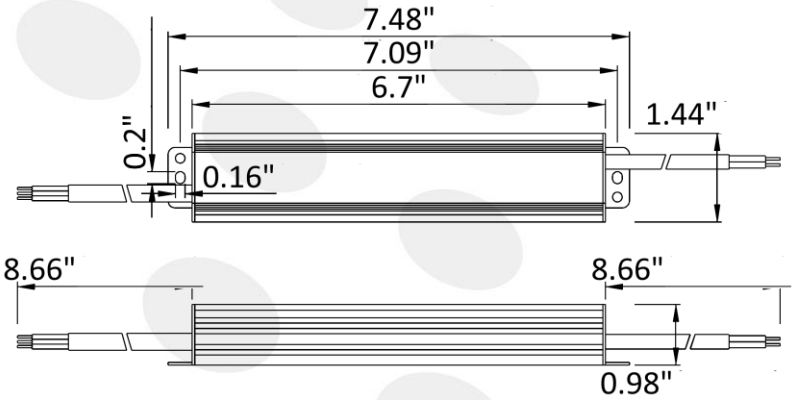
- 60W at 12V DC in a Compact Aluminum Housing
- Universal 100–277V AC Input
- IP67 Waterproof for Indoor & Outdoor Installations
- Dual Listed for Lighting and Sign Applications
- 90% Typical Efficiency
- Class 2 Output
- Hiccup-Mode Protection with Automatic Recovery

CERTIFICATIONS & COMPLIANCE

- UL Listed
- Class 2, SELV
- IP67 Rated

SERVICE ENVIRONMENT

- Working Temp. -20°C ~ +50°C
- Working Humidity 15 ~ 99% RH
- Storage Temp. -40°C ~ +85°C
- Storage Humidity 15 ~ 99% RH



Dimensions shown in inches. Housing: Aluminum.

QUICK SPEC TABLE

SKU	MODEL NUMBER	WATT	WORKING TEMP	ENVIRONMENT	MAX. OUTPUT CURRENT	INPUT VOLTAGE	OUTPUT VOLTAGE	EFFICIENCY	IP RATING	CERTIFI-CATIONS
157581	JLV-12060KA-UC	60W	-20°C ~ +50°C	Indoor & Outdoor	5A	100–277V AC	12V DC	90%	IP67	UL

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Electrical Data

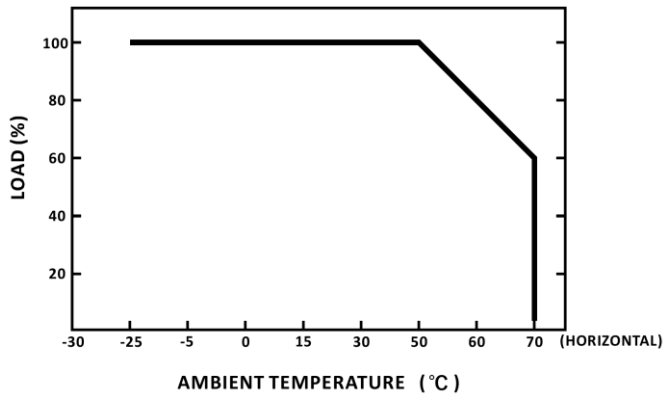
AC INPUT	
Input Voltage	100–277V AC
Input Frequency	50/60Hz
Efficiency (Typ.)	90%
Input Current	230V: 0.5A / 110V: 1.1A
Inrush Current	40A
Leakage Current	5mA/230VAC

SAFETY	
Safety Standard	EN 61347-2-13, UL 1310, UL 8750
Withstand Voltage	I/P-O/P: 1750VAC/1min/<5mA
Isolation Resistance	I/P-O/P: >100M Ohms / 500VDC / 25°C / 70%RH

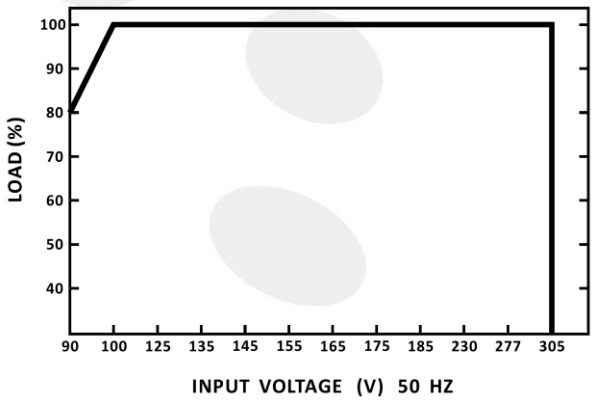
DC OUTPUT	12V
SKU	157581
Model	JLV-12060KA-UC
Output Voltage	12V
Rated Current	5A
Rated Power	60W
Ripple & Noise (Max.)	<240mVp-p
Setup, Rise Time	1500ms
Line Regulation	1%
Load Regulation	1%

Performance Data

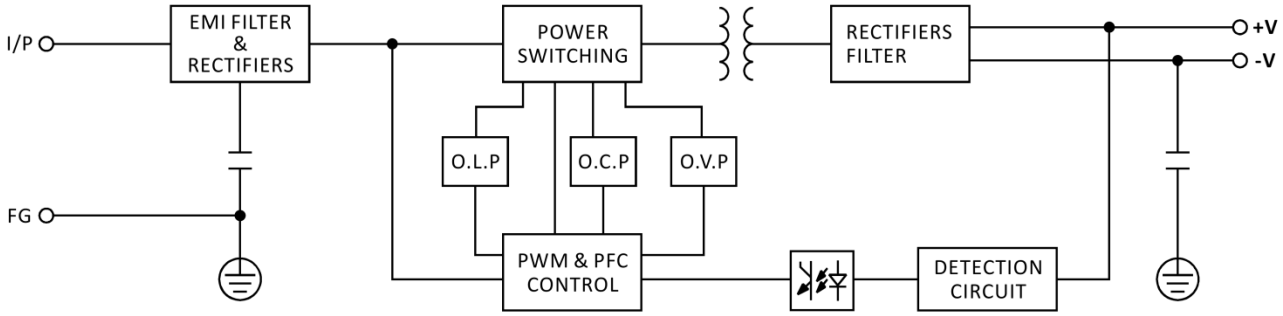
Derating Curve



Static Characteristics



Block Diagram



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Installation

IMPORTANT SAFETY INFORMATION

- Warning: risk of fire or electric shock – installation by qualified personnel only
- Identify the driver's input and output before installation
- Power on only after all wire connections are complete
- Verify the supply voltage is within the 100–277V AC input range

GENERAL INSTALLATION NOTES

- Suitable for indoor and outdoor use; IP67 waterproof housing
- Install the driver in a location with good ventilation and cooling
- Mount the driver as near to the LED load as possible to avoid voltage drop on the output wiring
- If long extension wires must be used, use thicker wires and reduce the connected load wattage

WIRING INSTRUCTIONS

AC Input (3-Conductor, Black PVC Cable)

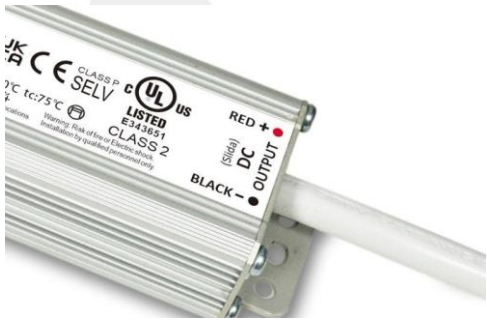
- Line (L) / Neutral (N): as marked on the driver label
- Ground: Green/Yellow

DC Output (2-Conductor, White PVC Cable)

- Red – Positive (+)
- Black – Negative (–)
- Ensure correct + and – connection to the LED load



AC input end – label markings



DC output end – RED (+) / BLACK (–) markings

PROTECTION

Overload: active when the load exceeds 100–120%. The output shuts off and operates in hiccup mode.

Short Circuit: hiccup mode; recovers automatically after the fault condition is removed.

LOCATION RATING

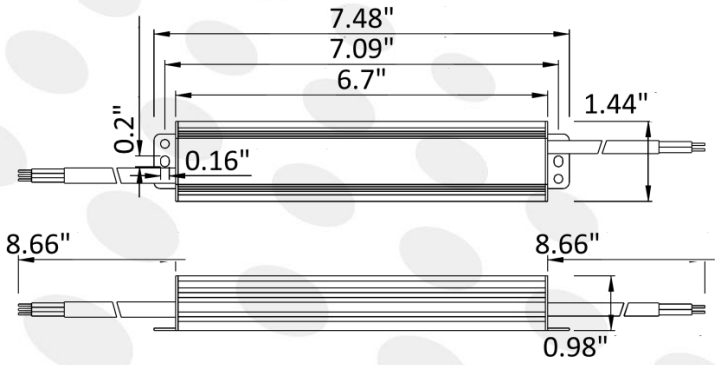
- Suitable for wet, dry and damp locations (as marked on the product label)
- Rated ambient (ta) 50°C; case temperature (tc) 75°C

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Installation

MOUNTING DIMENSIONS

Overall Length 7.48"
Width 1.44"
Height 0.98"
Input / Output Leads 8.66"
Refer to the drawing for mounting tab dimensions.



FINAL CHECK

- Confirm input and output leads are correctly identified
- Confirm output polarity: Red (+), Black (–)
- Confirm all wire connections are complete and secure
- Energize circuit

Packaging

SKU#	Model	Carton Dimension	Qty	Net Weight (each)	Gross Weight (per carton)
157581	JLV-12060KA-UC	15.35" × 9.06" × 10.24"	50 PCS/Carton	0.66 LBS	36.82 LBS

Product dimension: 7.48" × 1.44" × 0.98"

Warranty

- Warranty terms and coverage period: see Beyond LED Technology terms and conditions
  https://beyondledtechnology.com/pages/terms-and-conditions