LED DRIVER

JINBO

100W WATERPROOF LED DRIVER

Universal 100–277V AC input, 12V or 24V DC output, IP67 for indoor & outdoor use.



JINBO 100W Waterproof LED Driver is a constant-voltage power supply for 12V DC and 24V DC LED lighting and signs. It accepts a universal 100–277V AC input and delivers a full 100W output at 90% typical efficiency. Housed in an 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 or 24V DC
- Input Voltage 120–277V
- 100W Rated Output Power
- Rated Current 12V– 8.33A / 24V– 4A
- High Transfer Efficiency
- IP67 Waterproof Aluminum Housing
- Suitable for Indoor & Outdoor Use
- Overload & Short-Circuit Protection
- Line & Load Regulation 1%
- 100% Full-Load, 100% Burn-In Tested
- Overload or Short circuit protection
- UL Listed.
- Class 2 & SELV Certified

APPLICATION

- LED Strip Lighting
- Architectural Lighting
- Cabinet Lighting
- Display & Signage Lighting
- Landscape Lighting
- Cove & Accent Lighting

ELECTRICAL SPECIFICATIONS

- Input Voltage 100–277V AC
- Output 12V & 24V DC
- Rated Power 100W
- 90% Typical Efficiency
- Ripple & Noise <400mVp-p
- Line & Load Regulation 1%
- Setup, Rise Time 2000ms

CONTROL AND ACCESSORIES

- 12V DC or 24V DC constant-voltage
- Keep the connected load at or below of the rated Wattage.
- Output Polarity: Red (+), Black (–)
- Use IP67 wire connectors in wet or outdoor locations.
- The leads are 18 AWG. For long output runs.

MECHANICAL SPECIFICATIONS

- Housing Aluminum
- IP Rating IP67
- Class 2 Certified
- Working Temp. -25°C ~ +50°C
- Storage Temp -40°~80°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

- 12V DC and 24V DC Output Models, 100W Each
- Input Voltage 100–277V AC
- IP67 Waterproof for Indoor & Outdoor Installations
- Dual Listed for Lighting and Sign Applications
- 90% Typical Efficiency
- Hiccup-Mode Protection with Automatic Recovery
- 100% Full-Load Burn-In Tested

CERTIFICATIONS & COMPLIANCE

- UL Listed
- Class 2, SELV Certified
- IP67 Rated

SERVICE ENVIRONMENT

- Working Temp. -25°C ~ +50°C
- Working Humidity 20 ~ 99% RH
- Storage Temp. -40°C ~ +80°C
- Storage Humidity 10 ~ 95% 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
157578	JLV-12100KA-UC-B	100W	-25°C ~ +50°C	Indoor & Outdoor	8.33A	100–277V AC	12V DC	90%	IP67	UL
157587	JLV-24100KA-UC	96W	-25°C ~ +50°C	Indoor & Outdoor	4A	100–277V AC	24V DC	90%	IP67	UL

JINBO
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Electrical Data

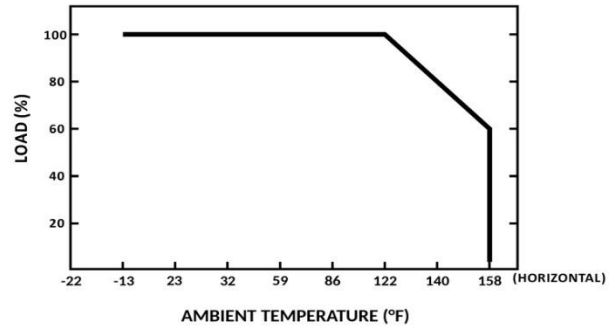
AC INPUT	
Input Voltage	100–277V AC
Input Frequency	50/60Hz
Efficiency (Typ.)	90%
Input Current	230V: 0.8A / 120V: 1.5A
Inrush Current	50A
Leakage Current	5mA/277VAC

SAFETY	
Safety Standard	UL 1310, UL 8750
Withstand Voltage	I/P-O/P: 3000VAC/1min/<5mA
Isolation Resistance	I/P-O/P: >100M Ohms / 500VDC / 77°F / 70%RH

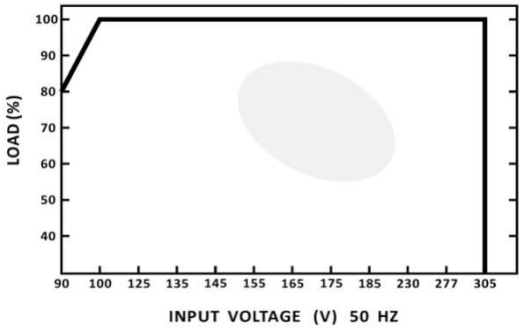
DC OUTPUT	12V	24V
SKU	157578	157587
Model	JLV-12100KA-UC-B	JLV-24100KA-UC
Output Voltage	12V	24V
Rated Current	8.33A	4A
Rated Power	100W	96W
Ripple & Noise (Max.)	<400mVp-p	<400mVp-p
Setup, Rise Time	2000ms	2000ms
Line Regulation	1%	1%
Load Regulation	1%	1%

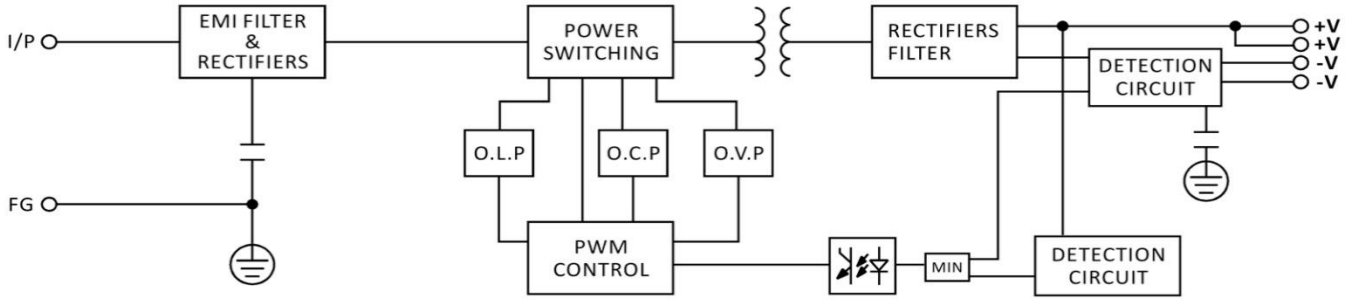
Performance Data

Derating Curve



Static Characteristics





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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 Cable)

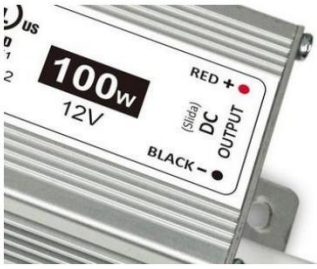
- Line (L) / Neutral (N): as marked on the driver label
- Ground: Green/Yellow

DC Output (White Cable)

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



AC input end – label markings



DC output end – label markings (12V model shown)

PROTECTION

Overload: active when the load exceeds 105–110%. The output shuts off and operates in hiccup mode.

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

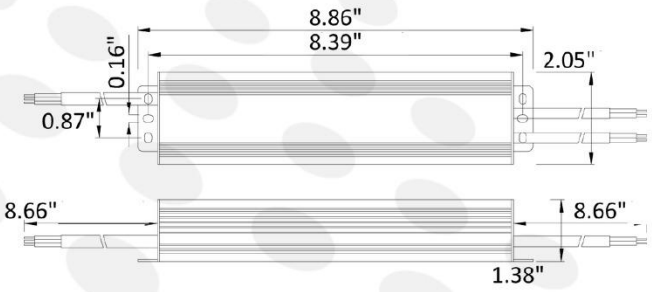
LOCATION RATING

- Suitable for wet, dry and damp locations
- Rated ambient (ta) 50°C; case temperature (tc) 75°C

Installation

MOUNTING DIMENSIONS

Overall Length 8.86"
Width 2.05"
Height 1.38"
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)
157578	JLV-12100KA-UC-B	13.58" × 10.04" × 7.09"	20 PCS/Carton	1.44 LBS	29.32 LBS
157587	JLV-24100KA-UC	13.58" × 10.04" × 7.09"	20 PCS/Carton	1.44 LBS	29.32 LBS

Product dimension: 8.86" × 2.05" × 1.38"

Warranty

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