LED DRIVER

JINBO

36W WATERPROOF LED DRIVER

Universal 100-250V AC input, 12V DC output, IP67 for indoor & outdoor use.



JINBO 36W Waterproof LED Driver is a compact constant-voltage power supply for 12V DC LED lighting and signs. It accepts a universal 100-250V AC input and delivers 36W at 3A with 90% typical efficiency. The IP67 plastic ABS housing is suitable for indoor and outdoor installations. UL listed for lighting and sign applications, it provides overload and short-circuit protection with automatic recovery. Every unit is 100% full-load, 100% burn-in tested.

PRODUCT FEATURES

- Constant Voltage Output: 12V DC
- Input Voltage 100-250V AC
- 36W Rated Output Power
- 90% Typical Efficiency
- IP67 Waterproof Plastic ABS Housing
- Suitable for Indoor & Outdoor Use
- Overload & Short-Circuit Protection
- 100% Full-Load, 100% Burn-In Tested
- UL Listed (US & Canada)
- Class 2, Class P & SELV

APPLICATION

- LED Strip Lighting
- Under-Cabinet Lighting
- Shelf Lighting
- Retail Display Lighting
- Architectural Accent Lighting
- Compact LED Installations

ELECTRICAL SPECIFICATIONS

- Input Voltage 100-250V AC
- Input Frequency 47-63Hz
- Input Current 110V:0.62A 230V: 0.20A
- Output Current 3A
- Rated Power 36W
- Efficiency 90%
- Ripple & Noise <200mVp-p
- Line / Load Regulation 1% / 1%

INPUT & OUTPUT CONNECTIONS

- Input: 2-Wire, AWM1015, 18 AWG
- Output: 2-Wire, AWM1015, 18 AWG
- Output Polarity: Red (+), Black (-)
- Lead Length: 7.87" (200mm), Both Sides
- Wire Size: 0.75mm² / 18 AWG

MECHANICAL SPECIFICATIONS

- Housing Plastic ABS
- 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

- 36W at 12V DC from One Compact Driver
- Universal 100-250V AC Input
- IP67 Waterproof for Indoor & Outdoor Installations
- Dual Listed for Lighting and Sign Applications
- 90% Typical Efficiency
- Single 36W Class 2 Output
- Hiccup-Mode Protection with Automatic Recovery

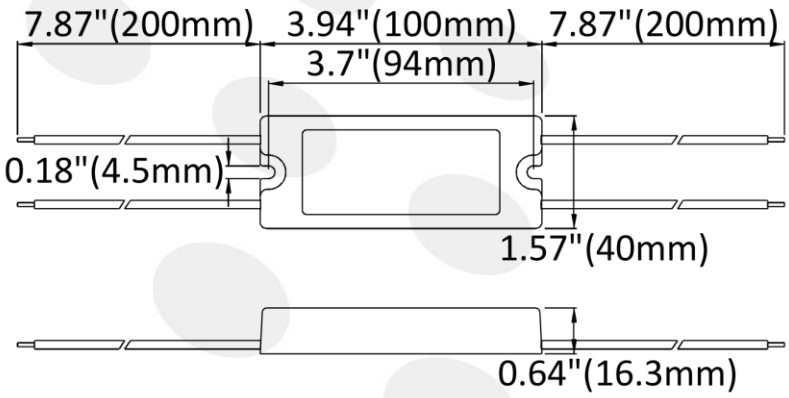
CERTIFICATIONS & COMPLIANCE

- UL Listed (US & Canada)
- Class 2, Class P, 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

Working range above: manufacturer datasheet.
Product label ratings: ta 45°C / tc 85°C.



Dimensions shown in inches (mm). Housing: Plastic (ABS).

QUICK SPEC TABLE

SKU	MODEL NUMBER	WATT	WORKING TEMP	ENVIRONMENT	MAX. OUTPUT CURRENT	INPUT VOLTAGE	OUTPUT VOLTAGE	EFFICIENCY	IP RATING	CERTIFI-CATIONS
157585	JLV-12036PA-UD	36W	-20°C ~ +50°C	Indoor & Outdoor	3A	100-250V AC	12V DC	90%	IP67	UL

JINBO
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Electrical Data

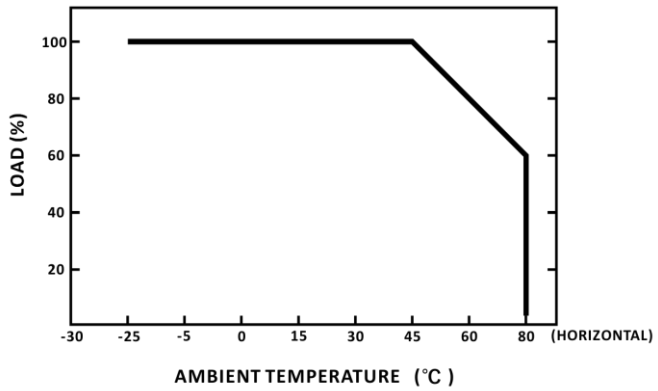
AC INPUT	
Input Voltage	100-250V AC
Input Frequency	47-63Hz (per label)
Efficiency (Typ.)	90%
Input Current	230V: 0.20A / 110V: 0.62A
Inrush Current	40A
Leakage Current	5mA/230VAC

SAFETY	
Safety Standard	UL 8750, UL 879, Class 2, Class P
Withstand Voltage	I/P-O/P: 1750VAC/1min/<10mA
Isolation Resistance	I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH

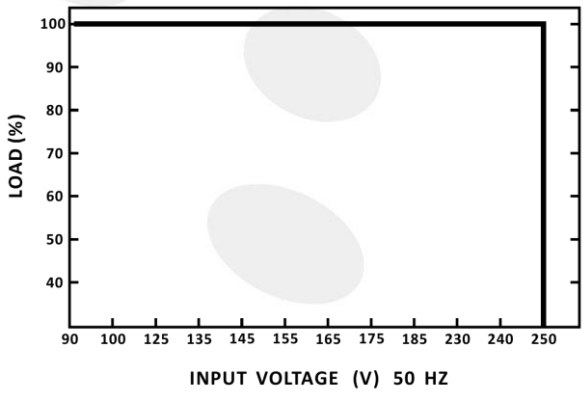
DC OUTPUT	12V
SKU	157585
Model	JLV-12036PA-UD
Output Voltage	12V
Rated Current	3A
Output Channels	1 × 3A / 36W
Rated Power	36W
Ripple & Noise (Max.)	<200mVp-p
Setup, Rise Time	1500ms
Line Regulation	1%
Load Regulation	1%

Performance Data

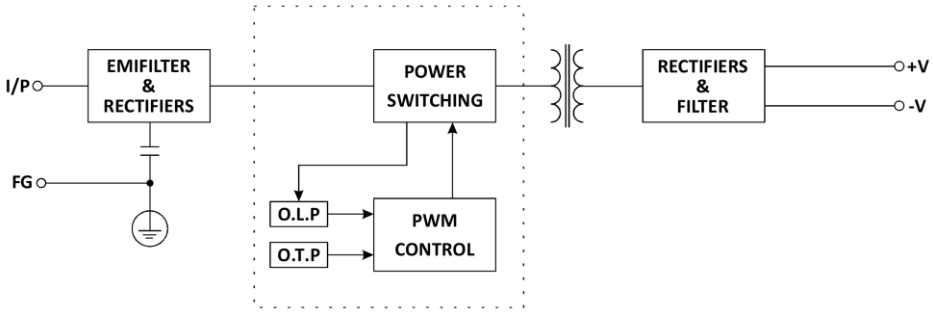
Derating Curve



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 100-250V AC input range
- Do not interconnect output terminals

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 (2-Wire, AWM1015)

- Line (L): Black; Neutral (N): White (per label)
- Match the input wires to the driver label

DC Output (2-Wire, AWM1015)

- Red - Positive (+)
- Black - Negative (-)
- Ensure correct + and - connection to the LED load
- Single output: 12V DC 3A, 36W

Both leads: AWM1015, 0.75mm² / 18 AWG



AC input end - label markings



DC output end - single 12V DC output

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.

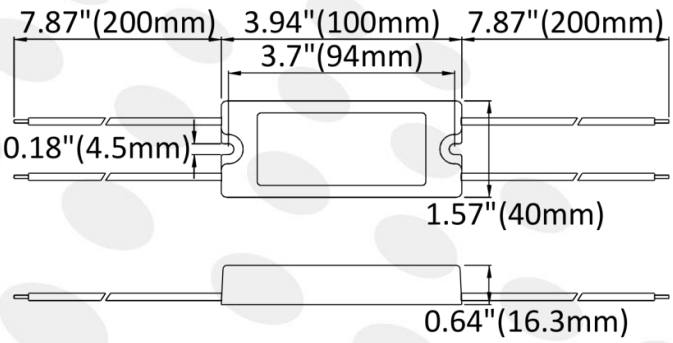
LOCATION RATING

- IP67; indoor & outdoor use (manufacturer datasheet)
- Product label: damp location; ta 45°C / tc 85°C

Installation

MOUNTING DIMENSIONS

Overall Length 3.94" (100mm)
Width 1.57" (40mm)
Height 0.64" (16.3mm), per drawing
Input / Output Leads 7.87" (200mm)
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)
157585	JLV-12036PA-UD	11.81" × 10.83" × 10.63"	100 PCS/Carton	0.22 LBS	25.79 LBS

Product dimension (drawing): 3.94" × 1.57" × 0.64" (100 × 40 × 16.3mm)

Master carton: 30 × 27.5 × 27cm.

Lead lengths follow the physical drawing; input frequency and wire colors follow the product label.

Warranty

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