

LED Constant Voltage Driver Specification Data Sheet

Model: LD300-2H24V

Product Features

- Aluminum Enclosure
- Operates at ultra-low temperatures as low as -30°C
- Lightweight design for easy installation
- High efficiency reaching up to 86%
- Exceptional reliability
- Supports a wide input voltage range of 180~264Vac



Technical Specification:

Input

Efficiency: 86% @ 220VAC, Full load

Input Voltage: 200-240VAC

Frequency: 50Hz

Maximum Current: 3.0A @ 230VAC

Inrush Current: <50A @ 230VAC, cold start

Leakage Current: <0.75mA @ 240VAC

Output

Current: 12.5A Voltage: 24VDC Power: 300W

Ripple & Noise: 200mVp-p

Output Voltage Range: 22.8V ~ 25.2V

Channels: 2

Line Regulation: 1% Load Regulation: 2%

Voltage Tolerance: ±3%Turn-On Delay Time:

1.5s, 20ms @ 230VAC

Protection

Short Circuit: Hiccup mode, auto-recovery

Overload Protection: 110% ~ 150% of the rated load

Safety

Withstand Voltage:

Input-FG: 1500VAC / 2121VDC Input-Output: 1500VAC / 2121VDC Output-FG: 500VAC / 707VDC

Isolation Resistance

Input-FG: >100MΩ @ 500VDC, 25°C & 70% RH

Input-Output: >100MΩ @ 500VDC, 25°C & 70%

Output-FG: >100MΩ @ 500VDC, 25°C & 70% RH

Environmental Conditions

Operating Temperature: -30°C to +60°C, 20% to 90% RH

Storage Temperature & Humidity: -30°C to +70°C, 10% to 95% RH

Maximum Case Temperature (Tc): 70°C

Material and Design

Material: Metal IP Rating: IP20

Lifetime: 40,000 hours @ Tc 65°C

Warranty: 2 years

Switch Cycle: >15,000 cycles

Dimensions

Product Size: 286 x 53 x 22 mm (L x W x H)

Net Weight: $460g \pm 5\%$ per unit

Packing Details:

50 units per carton

Carton Weight: 25.1kg $\pm 5\%$

Carton Dimensions: 306 x 285 x 300 mm (L x W x H)













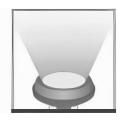


Application









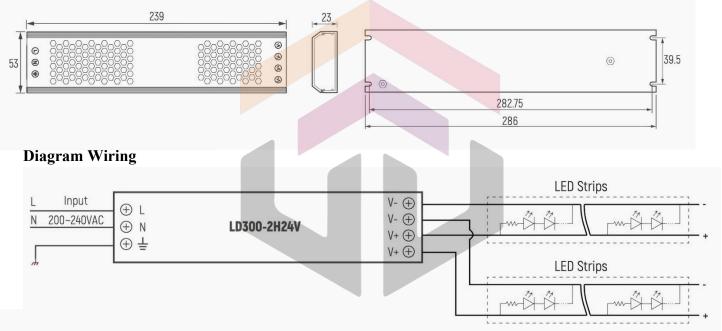
Light Box

LED Strip Light

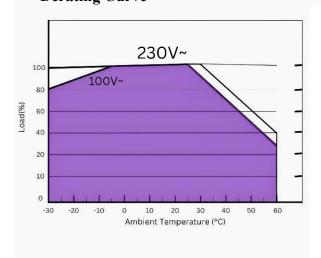
LED Tube

Astigmatism Source

Dimension(mm)



Derating Curve

















PRECAUTIONS

- This product should only be installed and debugged by qualified professionals.
- This product is not waterproof. Avoid exposure to sunlight and rain. If used outdoors, ensure it is housed in a waterproof casing.
- Proper heat dissipation will extend the product's lifespan. Ensure installation in a well-ventilated area.
- Verify that the output voltage and current of the LED power supply meet the product's specifications.
- Ensure the wire diameter can handle the load of the connected LED lamps, and that the connections are secure to prevent overheating or loose connections, which could lead to accidents.
- Before testing, double-check all wire connections to avoid damage to the lamp caused by incorrect wiring.
- When installed on a metal surface, the power supply must be properly grounded to prevent electrical shocks or leakage.
- If a malfunction occurs, do not attempt to repair it yourself. Contact the supplier if any issues arise.

Note

This manual may be updated without prior notice.

If the product's features differ from the instructions, the product's actual function will take precedence. Feel free to contact us for any inquiries.



