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› POPPSTAR DIN Rail Power Supply 24V DC 1.5A 36W Instruction Manual

POPPSTAR P-30-24

POPPSTAR DIN Rail Power Supply 24V DC 1.5A 36W Instruction Manual

Model: P-30-24

1. INTRODUCTION

This instruction manual provides essential information for the safe and efficient installation, operation, and maintenance of your POPPSTAR DIN Rail Power Supply, Model P-30-24. Please read this manual thoroughly before using the device and keep it for future reference.

2. SAFETY INSTRUCTIONS

To ensure safe operation and prevent damage to the device or injury, please observe the following safety guidelines:

- Installation and maintenance must only be performed by qualified personnel.
- Ensure the power supply is disconnected from the mains before any installation, wiring, or maintenance work.
- Do not operate the device in environments with excessive moisture, dust, or extreme temperatures outside the specified operating range.
- Ensure proper ventilation to prevent overheating.
- The device is designed for indoor use only and has an IP20 protection rating.
- Do not open the housing of the power supply. There are no user-serviceable parts inside.
- Verify correct input and output voltage connections before applying power.

3. PRODUCT OVERVIEW

The POPPSTAR DIN Rail Power Supply (P-30-24) is a compact and efficient switching power supply designed for various applications, including electrical cabinets, home automation systems, and industrial automation. It features easy DIN rail mounting and includes essential protection mechanisms.

3.1 Key Features

- High Efficiency and Low Ripple/Noise
- Adjustable Output Voltage (23V - 25V DC)
- DC OK Indicator Light (LED)
- Protection against Overload (Hiccup Mode), Short Circuit, Overvoltage, and Over Current
- Compact and Lightweight Plastic Housing
- Simple DIN Rail Mounting (TS 35/7.5 and TS 35/15 compatible)
- Protected Screw Terminals for Accidental Contacts

3.2 Product Components and Labeling

The device features clear labeling for input and output terminals, as well as an indicator light for operational status.





Image Description: This image shows the front view of the POPSTAR DIN Rail Power Supply. The product label is clearly visible, displaying the brand name 'POPSTAR POWER SUPPLY', item number '1010820', input specifications '100-240V~ 50/60Hz 0.8A Max', and output specifications '24.0V--- 1.5A 36.0W'. It also shows the CE mark, IP20 rating, and input/output terminals. An adjustment screw for voltage is also visible.



Image Description: An angled view of the POPSTAR DIN Rail Power Supply, highlighting the input (N, L) and output (+, -) screw terminals. The product label with technical details and safety markings is also visible from this perspective.

4. TECHNICAL SPECIFICATIONS

Parameter	Value
Model Number	P-30-24
Input Voltage	100-240V AC, 50/60Hz, 0.8A max
Output Voltage	24V DC (adjustable 23V - 25V)
Output Current	1.5A
Output Power	36W
Operating Temperature	-10°C to 40°C
Storage Temperature	-40°C to 85°C
Relative Humidity (Operation)	20-90% (non-condensing)
Relative Humidity (Storage)	10-95% (non-condensing)
Insulation Resistance	0.1 Ohm (tested at 500V DC / 25°C / 70% RH)
Energy Efficiency	90%
Protection Rating	IP20
Protection Class	II
Dimensions (L x W x D)	90 mm x 35 mm x 58 mm (2.28 x 1.38 x 2.28 inches)
Weight	4.6 ounces
Compatible DIN Rail	TS 35/7.5, TS 35/15

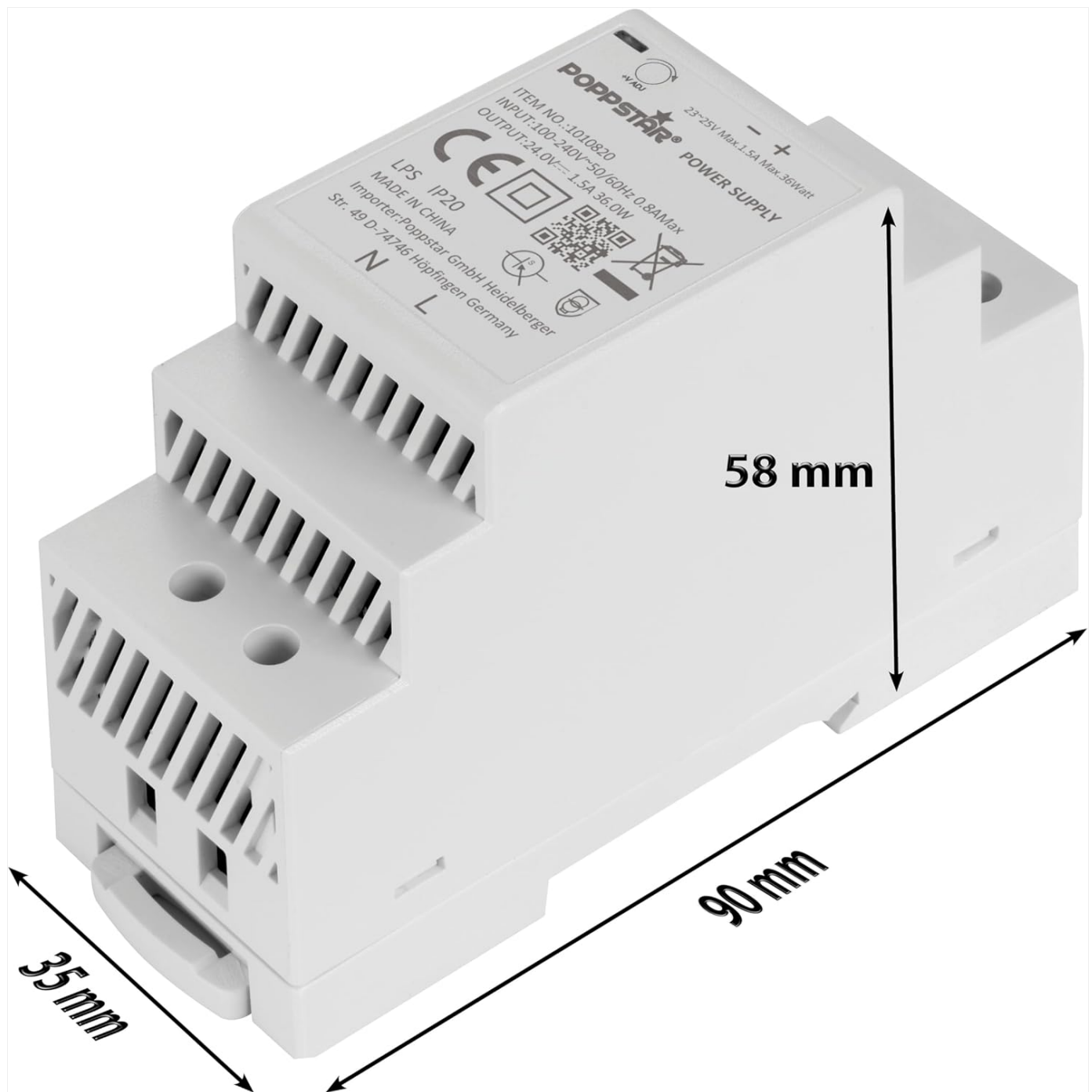


Image Description: This image illustrates the physical dimensions of the POPPSTAR DIN Rail Power Supply. The length is indicated as 90 mm, width as 35 mm, and depth as 58 mm.

5. SETUP AND INSTALLATION

The POPPSTAR DIN Rail Power Supply is designed for easy mounting on standard DIN rails.

5.1 Mounting on DIN Rail

1. Ensure the main power supply to the DIN rail system is disconnected.
2. Position the power supply unit over the DIN rail (TS 35/7.5 or TS 35/15).
3. Press the unit firmly downwards until the integrated clip mechanism engages securely with the DIN rail.
4. Verify that the unit is firmly attached and cannot be easily dislodged.





Image Description: A side view of the power supply, showing the integrated mounting clip mechanism at the bottom, designed for secure attachment to a DIN rail.



Image Description: The POPPSTAR DIN Rail Power Supply is shown securely mounted on a standard DIN rail, demonstrating its intended installation method.

5.2 Wiring Connections

Use appropriate wiring for input and output connections. The terminals are protected against accidental contact.

1. **Input (AC):** Connect the AC mains voltage (100-240V AC, 50/60Hz) to the 'N' (Neutral) and 'L' (Line) terminals.
2. **Output (DC):** Connect your 24V DC load to the '+' and '-' terminals. Ensure correct polarity.
3. Tighten all screw terminals securely to prevent loose connections.

6. OPERATION

6.1 Powering On

After completing the installation and wiring, restore the main power supply. The power supply unit will begin operation.

6.2 DC OK Indicator Light

The power supply features a 'DC OK' LED indicator light. This light illuminates when the DC output is active and within its normal operating range. If the power supply experiences an interruption or fault, the light may flicker or extinguish.

6.3 Output Voltage Adjustment

The output voltage can be adjusted between 23V and 25V DC using the small adjustment screw located on the front of the unit (labeled '+V ADJ'). Use a small screwdriver to carefully turn the screw to achieve the desired output voltage. Always verify the output voltage with a multimeter.

7. MAINTENANCE

The POPPSTAR DIN Rail Power Supply is designed for maintenance-free operation. However, periodic checks are recommended:

- Ensure the unit is free from dust and debris to maintain proper ventilation.
- Check all wiring connections for tightness and signs of wear or damage.
- Verify the 'DC OK' indicator light is illuminated during operation.
- Do not use liquid cleaners directly on the unit. Wipe with a dry, soft cloth if necessary.

8. TROUBLESHOOTING

If you encounter issues with your power supply, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No output voltage / DC OK LED off	No input power Loose wiring Internal fault	Check mains power supply. Verify input and output wiring connections. If problem persists, contact qualified personnel.
Output voltage fluctuates / DC OK LED flickers	Overload condition Unstable input voltage	Reduce the load connected to the power supply. Check the stability of the AC input voltage.
Device is hot	Insufficient ventilation Overload	Ensure adequate airflow around the unit. Reduce the load connected to the power supply.

9. WHAT'S IN THE BOX

- 1 x POPPSTAR DIN Rail Power Supply (24V DC 1.5A 36W)

10. WARRANTY AND SUPPORT

Specific warranty information and direct support contact details are not provided within this manual. For warranty claims or technical assistance, please refer to the retailer or manufacturer's official website where the product was purchased.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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