

Apple Barrel DRP024V960W3BN

Delta DRP024V960W3BN DIN Rail Power Supply User Manual

Model: DRP024V960W3BN | Brand: Apple Barrel

INTRODUCTION

This manual provides essential information for the safe and efficient operation of the Delta DRP024V960W3BN DIN Rail Power Supply. Please read this manual thoroughly before installation and operation to ensure proper usage and to prevent damage to the unit or connected equipment.

The DRP024V960W3BN is a high-performance DIN Rail Power Supply designed for industrial applications, providing stable 24VDC output with a power rating of 960W. It features a wide input voltage range and robust design for reliable operation in demanding environments.

SAFETY INSTRUCTIONS

- Always disconnect power before installation or maintenance.
- Ensure proper grounding to prevent electrical shock.
- Do not operate the unit in environments exceeding its specified temperature and humidity limits.
- Only qualified personnel should perform installation and servicing.
- Protect the unit from moisture and direct sunlight.

PRODUCT OVERVIEW



Figure 1: Front view of the Delta DRP024V960W3BN DIN Rail Power Supply. This image shows the compact design suitable for DIN rail mounting, with ventilation grilles on top and connection terminals at the bottom. The blue and white casing indicates the brand's typical color scheme.

The Delta DRP024V960W3BN is a robust power supply designed for industrial control systems. It features a high efficiency design, active power factor correction, and protection against overvoltage, overcurrent, and short circuits. Its

compact form factor allows for easy integration into control cabinets.

SETUP AND INSTALLATION

Mounting

The DRP024V960W3BN is designed for mounting on a standard 35mm DIN rail. Ensure adequate clearance around the unit for proper ventilation (minimum 50mm top/bottom, 10mm side).

1. Hook the top edge of the power supply onto the DIN rail.
2. Push the bottom of the unit firmly until it clicks into place.
3. Verify that the unit is securely fastened to the DIN rail.

Wiring Connections

Refer to the terminal block labels for correct wiring. Use appropriate wire gauges for the input and output currents.

- **Input (AC):** Connect the AC input lines (L1, L2, L3, N, PE) to the designated input terminals. The unit supports 3-phase input from 320 VAC to 600 VAC.
- **Output (DC):** Connect the DC output lines (+V, -V) to the load. The output is 24 VDC, 40 A.
- **Grounding:** Ensure a proper protective earth (PE) connection.

Tighten all terminal screws to the recommended torque to ensure secure connections and prevent arcing.

OPERATING INSTRUCTIONS

Powering On

Once all connections are secure and verified, apply power to the input terminals. The power supply will automatically start up and provide the regulated DC output.

Output Voltage Adjustment

The output voltage can be fine-tuned using the potentiometer located on the front panel. Use a small screwdriver to adjust the voltage within the specified range (typically 24V to 28V).

LED Indicators

The unit features LED indicators to display its operational status:

- **DC OK (Green):** Illuminates when the output voltage is within the nominal range.
- **Alarm (Red):** Illuminates in case of an internal fault or protection activation (e.g., overtemperature, overload).

MAINTENANCE

The Delta DRP024V960W3BN is designed for minimal maintenance. However, periodic checks are recommended to ensure optimal performance and longevity.

- **Cleaning:** Keep the ventilation openings clear of dust and debris. Use a soft, dry cloth for cleaning the exterior. Do not use liquid cleaners.
- **Connection Checks:** Periodically inspect all wiring connections for tightness and signs of corrosion. Re-tighten if necessary.
- **Environmental Conditions:** Ensure the operating environment remains within the specified temperature and

humidity ranges.

No user-serviceable parts are inside. Refer all servicing to qualified personnel.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No output voltage / DC OK LED off	No input power; Blown fuse; Internal fault; Overload/Short circuit	Check input power supply; Check external fuses; Disconnect load and re-power; If problem persists, contact support.
Alarm LED on	Overtemperature; Overload; Short circuit	Ensure adequate ventilation; Reduce load; Check for short circuits in wiring; Cycle power.
Output voltage unstable	Loose connections; Input voltage fluctuations; Faulty load	Check and tighten all connections; Verify stable input power; Test power supply with a different load.

SPECIFICATIONS

Parameter	Value
Model	DRP024V960W3BN
Input Voltage	320 VAC to 600 VAC (3-Phase)
Output Voltage	24 VDC
Output Current	40 A
Output Power	960 W
Dimensions (W x H x D)	121 x 255 x 117.3 mm
Weight	50 pounds (approx. 22.68 kg)
UPC	763236729557

WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Apple Barrel (Delta Electronics) website.

For technical support, troubleshooting assistance, or service inquiries, please contact the manufacturer's customer support. Contact information can typically be found on the product packaging or the manufacturer's official website.

Manufacturer: Delta Electronics

Brand: Apple Barrel

For further assistance, you may visit the [product page on Amazon](#).

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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