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> [Nippon DVP-512 110V DC Regulated Power Supply User Manual](#)

Nippon dvp512

Nippon DVP-512 110V DC Regulated Power Supply User Manual

Model: DVP-512

1. INTRODUCTION

The Nippon DVP-512 is a DC regulated power supply designed to convert standard 110V AC household current into a stable 13.8V DC output. This unit is engineered to provide a continuous current of 3 Amps with a surge capability of up to 5 Amps, making it suitable for various electronic applications requiring a reliable DC power source. It features low ripple output and built-in surge protection to safeguard connected devices.



Figure 1: Front panel of the Nippon DVP-512 power supply. Visible features include the 'ON/OFF' toggle switch, red positive (+) and black negative (-) output terminals, and the model designation 'DVP-512'. The output specification '13.8V/3-5A' is also printed below the terminals.

2. SAFETY INSTRUCTIONS

Read all instructions carefully before operating the device. Failure to follow these instructions may result in electric shock, fire, or damage to the unit or connected equipment.

- **Indoor Use Only:** This power supply is designed for indoor use in dry environments. Do not expose it to rain, moisture, or extreme temperatures.
- **Ventilation:** Ensure adequate ventilation around the unit. Do not block ventilation openings. Overheating

can cause damage.

- **Power Source:** Connect the unit only to a 110V AC, 60Hz power outlet.
- **Grounding:** Ensure the power outlet is properly grounded.
- **Avoid Overload:** Do not exceed the rated output current (3 Amps continuous, 5 Amps surge). Overloading can damage the power supply and connected devices.
- **Polarity:** Always observe correct polarity when connecting devices to the output terminals (+ to +, - to -). Incorrect polarity can damage the connected device.
- **Servicing:** Do not attempt to open or service the unit yourself. Refer all servicing to qualified personnel.
- **Liquid Contact:** Keep liquids away from the power supply. In case of accidental spill, immediately disconnect power and allow the unit to dry completely before reuse.

3. SETUP

1. **Unpacking:** Carefully remove the power supply from its packaging. Inspect the unit for any signs of physical damage. If damage is present, do not use the unit and contact your vendor.
2. **Placement:** Place the power supply on a stable, flat surface. Ensure there is sufficient space (at least 4 inches or 10 cm) around all sides for proper air circulation and heat dissipation. Avoid placing it near heat sources or in direct sunlight.
3. **AC Power Connection:** Plug the power cord into a standard 110V AC, 60Hz wall outlet. Ensure the outlet is easily accessible.
4. **DC Device Connection:** Connect your DC-powered device to the output terminals on the front panel.
 - Connect the positive (+) lead of your device to the red (+) terminal on the power supply.
 - Connect the negative (-) lead of your device to the black (-) terminal on the power supply.

Important: Double-check polarity before turning on the power supply to prevent damage to your device.

4. OPERATING INSTRUCTIONS

1. **Power On:** After ensuring all connections are secure and correct, flip the yellow toggle switch on the front panel to the 'ON' position. The power supply will begin providing 13.8V DC output.
2. **Monitoring:** Observe your connected device to ensure it is functioning correctly. The DVP-512 provides a fixed 13.8V DC output.
3. **Power Off:** To turn off the power supply, flip the toggle switch to the 'OFF' position. Disconnect your device when not in use.

5. MAINTENANCE

The Nippon DVP-512 power supply requires minimal maintenance to ensure long-term reliable operation.

- **Cleaning:** Periodically wipe the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure the unit is unplugged before cleaning.
- **Ventilation:** Regularly check that the ventilation openings are free from dust and debris. Use a soft brush or compressed air to clear any blockages.
- **Cable Inspection:** Inspect the power cord and output cables for any signs of damage (fraying, cuts). Replace damaged cables immediately.

6. TROUBLESHOOTING

If you encounter issues with your Nippon DVP-512 power supply, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power output	Unit not plugged in; Power switch off; Faulty AC outlet; Internal fuse blown.	Ensure power cord is securely plugged in. Flip power switch to 'ON'. Test AC outlet with another device. If fuse is suspected, contact qualified service personnel.
Connected device not working	Incorrect polarity; Device requires more current than supplied; Device is faulty.	Verify positive (+) and negative (-) connections. Check device's current requirements against the DVP-512's 3A continuous/5A surge rating. Test device with another known good power source.
Unit feels excessively hot	Blocked ventilation; Overloaded.	Ensure ventilation openings are clear. Reduce the load on the power supply to within its rated limits.

If the problem persists after attempting these solutions, discontinue use and contact customer support.

7. SPECIFICATIONS

Feature	Specification
Model Number	DVP-512
Input Voltage	110 Volts AC
Output Voltage	13.8 Volts DC
Output Amperage	3 Amps (Continuous), 5 Amps (Surge)
Ripple	Low Ripple
Protection	Built-in Surge Protection
Connector Type	Barrel Connector, Direct Connect Binding Posts, AC Input
Item Weight	5.3 Pounds
Manufacturer	Nippon

8. WARRANTY AND SUPPORT

Nippon products are manufactured to high-quality standards. For information regarding warranty coverage, please refer to the warranty card included with your purchase or contact your retailer. For technical support or inquiries, please reach out to the Nippon customer service department through the contact information provided by your point of purchase.