

FNIRSI FNIRSI-DPS-150 Plus

FNIRSI DPS-150 DC Power Supply Variable User Manual

Brand: FNIRSI | Model: FNIRSI-DPS-150 Plus

PRODUCT OVERVIEW

The FNIRSI DPS-150 is a high-performance, adjustable DC power supply designed for precision electronic equipment. It features a stable output of up to 30V and 5A, with a maximum power of 150W. The device boasts a 4-digit IPS display for high-precision readings and supports various input modes including PC, QC, and DC. Its compact design and advanced features make it ideal for a wide range of applications.

- High-performance stable output: 30 V, 5 A, 150 W DC power supply variable, 0.01 V, 0.001 A high-precision display, CC/CV switchable, <20 mV ultra-low power ripple.
- New upgrade: Supports PC, QC and DC input modes with PC programmable output function, allowing 6 groups of output parameters to be preset.
- HD interactive display: Equipped with a 2.8-inch IPS color screen and supports 90° flip for multi-angle observation. UI interface supports numerical and curve display.

SETUP AND CONNECTIONS

The DPS-150 offers flexible power input options and versatile output connections to suit various needs.

Power Input Modes

The device supports Power Delivery (PD), Quick Charge (QC), and standard DC 5-32V inputs. Use the appropriate cable and power adapter for your desired power output.

DPS-150 Programmable numerical control **FNIRSI** Current control



150W HIGH POWER PD/QC/DC INPUT

PD 100W / DC 5~32V 150W



► PD/QC Fast Chargers ◀



► Power Banks ◀



► DC Power Adapters ◀

Image: FNIRSI DPS-150 showing various power input options including PD/QC fast chargers, power banks, and DC power adapters.

Output Connections

The variable power supply integrates various connection methods for output, including 4mm banana heads, U-shaped terminals, and fine copper wires, ensuring compatibility with different electronic equipment and power cords.



VERSATILE CONNECTIONS EFFORTLESS FLEXIBILITY

4.0mm Banana Plugs

U-Shaped Terminals

Fine Copper Wire



Image: FNIRSI DPS-150 demonstrating versatile connections with 4.0mm banana plugs, U-shaped terminals, and fine copper wire options.

[Setup Demonstration Video](#)

Video: An official FNIRSI video demonstrating the setup and basic functionality of the DPS-150 DC Power Supply.

OPERATING INSTRUCTIONS

The DPS-150 features an intuitive interface and programmable functions for precise control over your power output.

Display and Controls

The 2.8-inch IPS color screen provides clear numerical and curve displays of voltage, current, and power. The screen can be flipped 90° for optimal viewing angles. Controls include a roller adjustment for precise parameter setting and dedicated buttons for mode selection and output control.



Image: The main product view of the FNIRSI DPS-150, highlighting its IPS display and physical controls.



CURVE & DIGITAL DISPLAY 90 ° FLIP DESIGN



Image: The DPS-150's display modes, including numerical and curve displays, and its 90° flip capability for flexible viewing.

PC Programmable Output & Presets

The device supports PC programmable output, allowing users to preset up to 6 groups of output parameters (M1-M6). This enables quick adjustment of output voltage and current for repetitive tasks or specific testing scenarios.

DPS-150

Programmable numerical control

FNIRSI
Current control

PC PROGRAMMABLE OUTPUT & PRESET 6 OUTPUT DATA



M4 DATA SET

09.00_V

0.099_A

M5 DATA SET

06.00_V

0.009_A

M6 DATA SET

04.00_V

0.069_A

Basic:

Real-time Display, Curve Logging, Preset Management etc.

Advanced:

Sequential Output, Voltage and Current Scanning etc.

Image: Illustration of the DPS-150's PC programmable output feature, allowing users to preset and recall 6 different output data groups.

SAFETY FEATURES

The FNIRSI DPS-150 is built with 8 advanced safety protection mechanisms to ensure the safety of both the device and connected equipment.

- Overvoltage Protection (OVP)
- Overcurrent Protection (OCP)
- Short Circuit Protection (SCP)
- Overheating Protection (OTP)
- Undervoltage Protection (UVP)
- Overload Protection (OLP)
- Reverse Input Prevention (RIP)
- Reverse Output Prevention (ROP)



8 KEY PROTECTION WORK SAFETY GUARDS



Over-Voltage
Protection



Over-Current
Protection



Undervoltage
Protection



Over Load
Protection



Overheat
Protection



Reverse Input
Prevention



Reverse Output
Prevention



Short Circuit
Protection



OVP *OCP* *UVP* *OLP*
OTP *RIP* *ROP* *SCP*

Image: Visual representation of the 8 key protection features integrated into the DPS-150 for enhanced work safety.

Note: When charging batteries, it is strongly recommended to add a reverse current protection module (such as a Schottky diode) to the output end to protect the device from damage.

PRODUCT SPECIFICATIONS

Feature	Specification
Model	DPS-150
Product Dimensions	4.06 x 3.07 x 1.18 inches
Item Weight	1.42 pounds
Output Voltage	0-30V
Output Current	0-5A
Output Power	0-150W
Display	2.8-inch IPS (320x240)
Input Voltage	DC 5-32V (Supports PD/QC)
Power Ripple	<20mV

APPLICATIONS

The FNIRSI DPS-150 is a versatile tool suitable for various environments and tasks requiring precise DC power.

- **Laboratory Use:** Ideal for experiments and precise power requirements.
- **DIY Projects:** Perfect for hobbyists and electronic enthusiasts.
- **Educational Settings:** Suitable for school projects and learning environments.
- **Phone Repair:** Provides stable power for mobile device diagnostics and repair.



Image: The DPS-150 is shown being used in various settings, including a laboratory, for DIY electronics, in a school environment, and for phone repair, highlighting its wide range of applications.

MAINTENANCE

To ensure the longevity and optimal performance of your FNIRSI DPS-150, follow these general maintenance guidelines:

- Keep the device clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the device to extreme temperatures, high humidity, or direct sunlight.
- Store the power supply in a cool, dry place when not in use.

TROUBLESHOOTING

If you encounter issues with your FNIRSI DPS-150, consider the following basic troubleshooting steps:

- **No Power:** Ensure the power adapter is correctly connected and the power source is active. Check the input mode switch.
- **Incorrect Output:** Verify that the voltage and current settings are correctly configured. Check the output connections for any loose wires or shorts.
- **Protection Triggered:** If a protection mechanism (e.g., OVP, OCP) is triggered, disconnect the load, check for faults in your circuit, and reset the device.

WARRANTY AND SUPPORT

The FNIRSI DPS-150 is manufactured by FNIRSI. For warranty claims, technical support, or further assistance, please refer to the contact information provided in your product packaging or visit the official FNIRSI website.

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