

FNIRSI DPS150 DC programmable mini laboratory power supply unit



Model: DPS150

Manufacturer: FNIRSI

EAN: 5907085527239

Product Code: 1298695

R2,176

FNIRSI DPS150 DC programmable mini laboratory power supply

The FNIRSI DPS150 is a compact, programmable laboratory power supply that combines high functionality with a portable form factor. The device provides voltage and current regulation, features an easy-to-read IPS screen (In-Plane Switching, a matrix that uses liquid crystals aligned in parallel, thus providing rich and perfectly reproduced colors), a number of protections, and the ability to power from various sources - from classic DC power supplies to powerbanks with Power Delivery function. Thanks to its varied operating modes and support for computer control, it will be suitable for both service and amateur and educational applications.

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Efficient cooling and stable operation

The power supply uses high-grade thermally conductive silicon with a thermal conductivity coefficient of 3.0 W/m-K, which ensures efficient heat dissipation from power components. The aluminum chassis acts as a passive heat sink to maintain stable performance even under prolonged operation and heavy load. The FNIRSI DPS150 has a complete set of protections that protect both the power supply and connected devices. Among other things, it offers protection against overvoltage (OVP), overload (OCP), short circuit (SCP), overheating (OTP) and input and output voltage reversal.

Convenient operation

The built-in 2.8-inch color IPS screen offers high resolution (320×240 px) and 90° rotation for convenient use. The display shows voltage, current, power, temperature and energy counters in real time. Depending on preference, the user can switch between graphical modes and the classic numerical view. The DPS150 allows the user to save up to 6 preset profiles of voltage and current settings. This allows you to instantly switch between operating modes, which significantly speeds up testing of different circuits or components.

High precision

The power supply is characterized by very low noise - ripple below 20 mV. This is crucial when powering audio, microprocessor or sensitive sensor circuits. Thanks to digital regulation and built-in control system, voltage and current parameters are very stable and accurate.

Universal connection and various power supply methods

The power supply's outputs support cables with 4mm banana plug terminals, U-type fork terminals and classic copper wires. Robust metal screw sockets guarantee secure contact and low transition resistance, which translates into accuracy and safe operation. The device can be powered either from a classic DC 5-32V power supply, or via a USB-C connector with PD (Power Delivery, USB-C fast charging technology) or QC (Quick Charge, a fast charging standard that significantly reduces battery charging time without compromising battery life), such as from a powerbank or laptop charger. This allows the DPS150 to be used without access to a power grid, increasing its use in

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service or field work.

Included

- cable with crocodile clamp x2
- USB cable
- user manual

Manufacturer	Fnirsi
Model	DPS-150
Input voltage	DC 5.0 V - 32 V
Input current	100 mA - 5 A
Resolution	Voltage: 10 mV; Current: 1 mA
Reading accuracy	Input voltage: ≤0.2% ±5 mV; Output voltage: ≤0.1% ±10 mV; Output current: ≤0.1% ±5 mA (for 0-3.5 A range)
Operating environment	Temperature: 0 °C - 40 °C; Relative humidity: 0% - 75% RH
Display	2.8 inches (320×240 pixel resolution)
Output	Voltage: 0 - 30 V; Current: 0 - 5 A; Power: 0 - 150 W.
Setting accuracy	Voltage: ≤0.1% ±5 mV; Current: ≤0.1% ±3 mA
Stability with load changes	0,49%
Efficiency at full load	96,30%
Dimensions	106 × 76 × 28 mm
Weight	Approximately 178 g

GPSR Link: https://psr-assets.innpro.pl/tools/sg_tools_other.pdf, Gross weight: 400, Net weight: 190, Box length: 16,50, Box width: 12,00, Box height: 7,50, PPWR: <https://ppwr.innpro.pl/fnirsi>