VOLTCRAFT FSP-1243

Voltcraft FSP-1243 Regulated DC Power Supply User Manual

Model: FSP-1243 | Brand: VOLTCRAFT

1. Introduction

This manual provides essential information for the safe and efficient operation of your Voltcraft FSP-1243 Regulated DC Power Supply. Please read these instructions thoroughly before using the device and retain them for future reference.
The Voltcraft FSP-1243 is a robust laboratory power supply designed to deliver a stable fixed voltage of 24 V/DC with a maximum current of 3 A, providing a total power output of 72 W. It features electronic stabilization for reliable performance.

2. Safety Instructions

Observe the following safety precautions to prevent electric shock, injury, or damage to the device:

- Ensure the power supply is connected to a properly grounded outlet.
- Do not operate the device in wet or damp conditions.
- Avoid exceeding the maximum output current or voltage ratings.
- Do not open the casing; there are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- Disconnect the power supply from the mains before making or breaking connections to the output terminals.
- Ensure adequate ventilation around the unit to prevent overheating.

3. Package Contents

Verify that all items are present upon unpacking:

- 1 x Voltcraft FSP-1243 Regulated DC Power Supply Unit
- 1 x Power Cord (country-specific)

- 1 x User Manual

4. Product Overview

The Voltcraft FSP-1243 features a robust metal casing and a clear front panel for easy operation.

Figure 1: Front view of the Voltcraft FSP-1243 power supply, showing the output terminals, power switch, and ammeter.

Front Panel Components:

- **Output Terminals:** Red (+) and Black (-) terminals for connecting your load. These are 4mm screwable outputs.
- **Ammeter:** Displays the current drawn by the connected load in Amperes (A).
- **Power Switch:** Toggles the power supply ON (I) or OFF (0).

Figure 2: Close-up of the front panel, highlighting the output terminals and the analog ammeter.

5. Setup

1. **Placement:** Place the power supply on a stable, level surface. Ensure there is sufficient space around the unit for proper ventilation. Do not block the ventilation grilles.
2. **Power Connection:** Connect the supplied power cord to the AC input socket on the rear of the power supply and then to a suitable mains outlet (100-240V AC, 50/60Hz).
3. **Load Connection:** With the power supply turned OFF (power switch in '0' position), connect your load to the output terminals. Connect the positive (+) terminal of your load to the red (+) output terminal of the power supply, and the negative (-) terminal of your load to the black (-) output terminal. Ensure connections are secure.

6. Operating Instructions

1. **Power On:** After connecting your load, switch the power supply ON by pressing the power switch to the 'I' position. The unit will provide a fixed 24 V/DC output.
2. **Monitor Current:** Observe the ammeter to monitor the current drawn by your connected load. Ensure the current does not exceed the maximum rated output of 3 A.
3. **Power Off:** To disconnect the load or stop operation, switch the power supply OFF by pressing the power switch to the '0' position. Then, safely disconnect your load.

7. Maintenance

- **Cleaning:** Disconnect the power supply from the mains before cleaning. Use a soft, dry cloth to clean the exterior. Do not use abrasive cleaners or solvents.
- **Ventilation:** Regularly check that the ventilation grilles are free from dust and obstructions to ensure proper airflow and prevent overheating.
- **Storage:** When not in use for extended periods, store the power supply in a cool, dry place, away from direct sunlight and extreme temperatures.

8. Troubleshooting

Problem	Possible Cause	Solution
No power when switched ON	Power cord not connected, mains outlet faulty, internal fuse blown.	Check power cord connection. Test mains outlet with another device. If fuse is suspected, contact qualified service personnel.
No output voltage/current	Load not connected correctly, load is open circuit, internal fault.	Verify load connections. Check the load for continuity. If problem persists, contact support.
Ammeter shows 0 A with load connected	Load is not drawing current, load is open circuit, ammeter fault.	Ensure the load is operational and drawing current. Check load connections.
Unit overheats	Blocked ventilation, excessive load.	Ensure ventilation grilles are clear. Reduce the load if it exceeds specifications.

If you encounter issues not listed here or if the problem persists after attempting the suggested solutions, please contact Voltcraft customer support.

9. Specifications

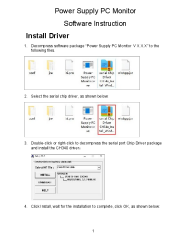
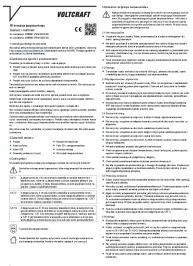
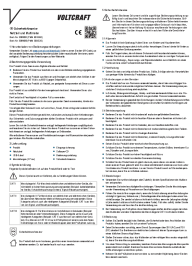
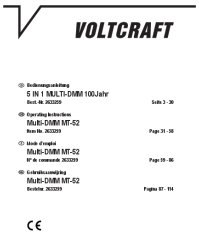
Feature	Specification
Brand	VOLTCRAFT
Model Number	FSP-1243
Output Voltage	24 V/DC (fixed)
Output Current	3 A (max.)
Output Power	72 W
Number of Outputs	1
Input Voltage	100-240 V AC (typical, check product label for exact range)
Special Features	Robust metal casing, 4mm screwable output terminals, Electronically stabilized
Cooling Method	Air
Dimensions (L x W x H)	25 x 14.5 x 11.3 cm
Weight	3.4 Grams (Note: This weight seems unusually low for a power supply of this size and power. Please verify with product label.)

10. Warranty and Support

Voltcraft products are designed for reliability and performance. For warranty information, please refer to the documentation provided with your purchase or visit the official Voltcraft website. For technical support,

troubleshooting assistance, or spare parts availability, please contact Voltcraft customer service.

Related Documents - FSP-1243

	VOLTCRAFT ESP 3010 Laboratory Power Supply User Manual User manual for the VOLTCRAFT ESP 3010 laboratory power supply, covering its purpose, description of controls, operation instructions, safety regulations, troubleshooting, and technical specifications. This device provides adjustable voltage and current for various applications.
	Power Supply PC Monitor Software Installation and Operation Guide Learn how to install the driver and operate the Power Supply PC Monitor software. This guide covers connection setup, interface features, and parameter settings for your lab power supply.
	Voltcraft VSP Labornetzgerät Bedienungsanleitung Diese Bedienungsanleitung enthält wichtige Hinweise zur Inbetriebnahme, Handhabung und technischen Daten der Voltcraft VSP Labornetzgeräte.
	VOLTCRAFT PMM 6010-60 / PMM 3005-20 Power Supply and Multimeter: Safety Instructions and Technical Specifications Safety instructions, user guide, and technical specifications for the VOLTCRAFT PMM 6010-60 and PMM 3005-20 digital multimeter and power supply units. Learn about safe operation, intended use, and technical data.
	VOLTCRAFT PMM 6010-60 / PMM 3005-20 Digital Multimeter and Power Supply - Safety and Technical Manual Comprehensive safety instructions, intended use, delivery contents, symbol explanations, and technical specifications for the VOLTCRAFT PMM 6010-60 and PMM 3005-20 digital multimeter and power supply.
	VOLTCRAFT MT-52 5-in-1 Digital Multimeter User Manual This document provides comprehensive operating instructions, safety guidelines, and technical specifications for the VOLTCRAFT MT-52 5-in-1 Digital Multimeter. Learn how to measure voltage, current, resistance, temperature, humidity, light, and sound levels.