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› [DROK 48V 10A 480W Adjustable AC to DC Power Supply User Manual \(Model 200570\)](#)

DROK 200570

DROK 48V 10A 480W Adjustable AC to DC Power Supply User Manual

Model: 200570

INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your DROK 48V 10A 480W Adjustable AC to DC Power Supply. This device converts AC input voltage (110V or 220V) to a variable DC output voltage ranging from 0-48V, with a maximum current of 10A and a rated power of 480W. It is equipped with an LED screen for voltage display, a heat sink, and a cooling fan for temperature management.



Image 1: Top-down view of the DROK 48V 10A 480W Adjustable AC to DC Power Supply, showing the LED display and cooling fan.

SETUP INSTRUCTIONS

1. Input Voltage Selection

Before connecting the power supply to an AC source, ensure the input voltage switch is set correctly for your region (110V or 220V). The default setting is typically 220V. Incorrect selection can damage the unit.

• Default 220V

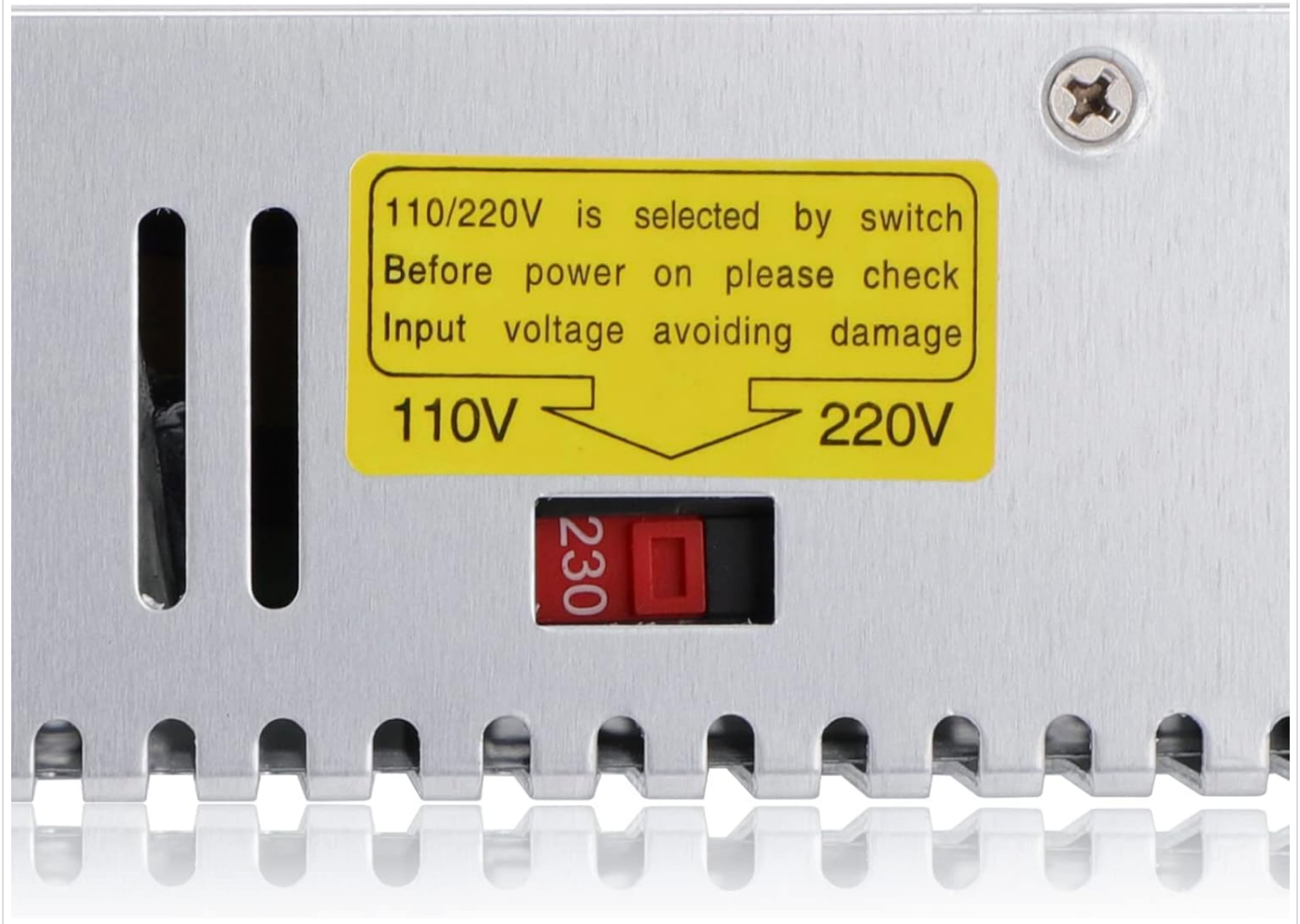


Image 2: Close-up of the input voltage selector switch, indicating options for 110V and 220V.

2. Wiring Connections

Connect the AC input wires to the terminals labeled L (Live), N (Neutral), and \triangle (Ground). For DC output, connect your load to the V+ (DC output positive) and V- (DC output negative) terminals. Ensure all connections are secure to prevent electrical hazards.

- **L:** Live wire
- **N:** Null wire
- \triangle : Ground
- **V+:** DC output positive
- **V-:** DC output negative



Image 3: Detailed view of the terminal block for connecting AC input and DC output wires.

OPERATING INSTRUCTIONS

1. Power On and Voltage Adjustment

After securing all connections and verifying the input voltage switch, connect the power supply to the AC source. The LED display will illuminate. Use the adjustable potentiometer knob to set the desired DC output voltage between 0V and 48V. The voltage precision is 0.1V.



Image 4: The voltage adjustment knob and the high-accuracy LCD display showing the output voltage.

2. Current Output

This power supply provides a fixed maximum current of 10A. The actual current drawn will be determined by the connected load, up to this 10A limit. The current output is not adjustable. Ensure your connected devices require less than 10A to prevent damage.

3. LED Display

The integrated LED screen clearly displays the output voltage. Some models may feature dual displays for both voltage and current. This model (200570) features a single display for voltage.

4. Demonstration Video

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Video 1: Official DROK demonstration of the power supply, showing voltage adjustment and input voltage selection.

MAINTENANCE

1. Cooling System

The power supply includes a built-in cooling fan that automatically activates when the internal temperature rises during high power operation. Ensure the fan vents are not obstructed to allow for proper airflow and prevent overheating.



Smart cooling fan

Image 5: View of the smart cooling fan integrated into the power supply casing.

2. Cleaning

Periodically clean the exterior of the power supply with a dry, soft cloth. Do not use liquid cleaners or allow moisture to enter the unit. Ensure the device is unplugged before cleaning.

TROUBLESHOOTING

- **No Output Voltage:** Check the AC input connections and ensure the input voltage switch (110V/220V) is correctly set for your local power grid.
- **Incorrect Output Voltage:** Verify the potentiometer knob is adjusted to the desired voltage. If the display shows an unexpected value, ensure the multimeter used for verification is calibrated and correctly connected.
- **Overload Protection:** The unit features Over Load Protection, Over Voltage Protection, and Short Circuit Protection. If the

power supply shuts down, disconnect the load, check for short circuits, and reduce the load if it exceeds 10A.

- **Fan Not Running:** The cooling fan activates automatically when the internal temperature reaches a certain threshold. If the unit is not under heavy load, the fan may not be active. If the unit is hot and the fan is not running, ensure vents are clear.

SPECIFICATIONS

Brand	DROK
Model Number	200570
Input Voltage	AC 110-220V ± 15%
Output Voltage	DC 0-48V (Adjustable)
Rated Power	480W
Maximum Current	10A (Fixed)
Voltage Precision	0.1V
Product Dimensions	8.46 x 4.45 x 1.97 inches (215 x 115 x 50mm)
Item Weight	0.01 ounces
Protection Features	Over Load Protection, Over Voltage Protection, Short Circuit Protection



Image 6: Diagram showing the physical dimensions of the power supply unit.


WARRANTY AND SUPPORT

This DROK power supply comes with a 1-year warranty against manufacturing defects. For technical support, warranty claims, or

further assistance, please visit the official [DROK Store on Amazon](#) or contact customer service.

Related Documents - 200570

	<p>DROK 200651 30V 4A 35W DC-DC Buck Boost Converter User Manual</p> <p>User manual for the DROK 200651 30V 4A 35W DC-DC Buck Boost Converter. Covers working interface, parameters, protection features, operating instructions for setting voltage, current, and other parameters, lock function, and size specifications.</p>
	<p>DC 5-32V to 1.25-20V Boost Buck Converter (090747) - Specifications and Guide</p> <p>Detailed technical specifications, wiring instructions, and application notes for the Drok DC 5-32V to 1.25-20V Boost Buck Converter (Model 090747). Learn about input/output parameters, protections, and how to connect and adjust the device for various electronic projects.</p>
	<p>DROK LM2596 DC-DC Buck Converter: Specifications and Calibration Guide</p> <p>Comprehensive details and step-by-step instructions for the DROK LM2596 DC-DC Buck Converter, covering product parameters, voltage calibration, and operational features.</p>
	<p>DROK DC Buck Converter 12A CC CV Adjustable Power Supply User Guide</p> <p>This guide provides detailed instructions and specifications for the DROK DC Buck Converter, a 12A adjustable power supply with CC/CV functionality and an LCD display. Learn how to use it for various applications including battery charging and LED driving.</p>
	<p>DROK Buck Converter User Manual and Specifications</p> <p>Comprehensive guide to the DROK Buck Converter, detailing its module description, parameters, protections, constant current mode, calibration, display settings, USB output, and important cautions. Includes technical specifications and troubleshooting Q&A.</p>

	<p>DROK DC Adjustable Boost Converter Module 6-30V to 7-32V 5A User Guide</p> <p>This guide provides detailed information on the DROK DC Adjustable Boost Converter Module, including its parameters, protections, display modes, and voltage calibration. Learn how to use this 5A, 60W (max) module for various voltage conversion needs.</p>
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