AiXun P3208

AiXun P3208 Smart Regulated Power Supply User Manual

Model: P3208

1. Introduction

The AiXun P3208 is a 320W smart regulated power supply designed for precision power delivery and testing. It features a 32V/8A output, advanced fast charging protocols, and specialized functions for mobile device repair and testing. This manual provides detailed instructions for the safe and efficient operation of your P3208 power supply.

Key features include:

- 320W high power output with 60W single channel and 30W dual channel fast charging.
- Support for PD/QC fast charge protocols via Type-A/Type-C outputs.
- One-key boot functionality for iPhone 6-14 battery protocols, aiding in mobile phone motherboard testing.
- 3.0-inch IPS full view high-definition screen for clear display of parameters.
- Customizable three-channel current and voltage shortcut settings for quick adjustments.
- High precision current collection (0.1mA) with selectable curve or pointer display modes.

2. Safety Information

Please read and understand all safety warnings and operating instructions before using this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always connect the ground lead before powering on the device.
- Do not operate the device in wet or damp conditions.
- Ensure proper ventilation to prevent overheating.
- Do not disassemble or modify the device. Refer all servicing to qualified personnel.
- Keep the device away from flammable materials.
- Verify correct voltage and current settings before connecting to any device.

3. Product Overview and Components

Familiarize yourself with the various parts and controls of the P3208 Smart Regulated Power Supply.

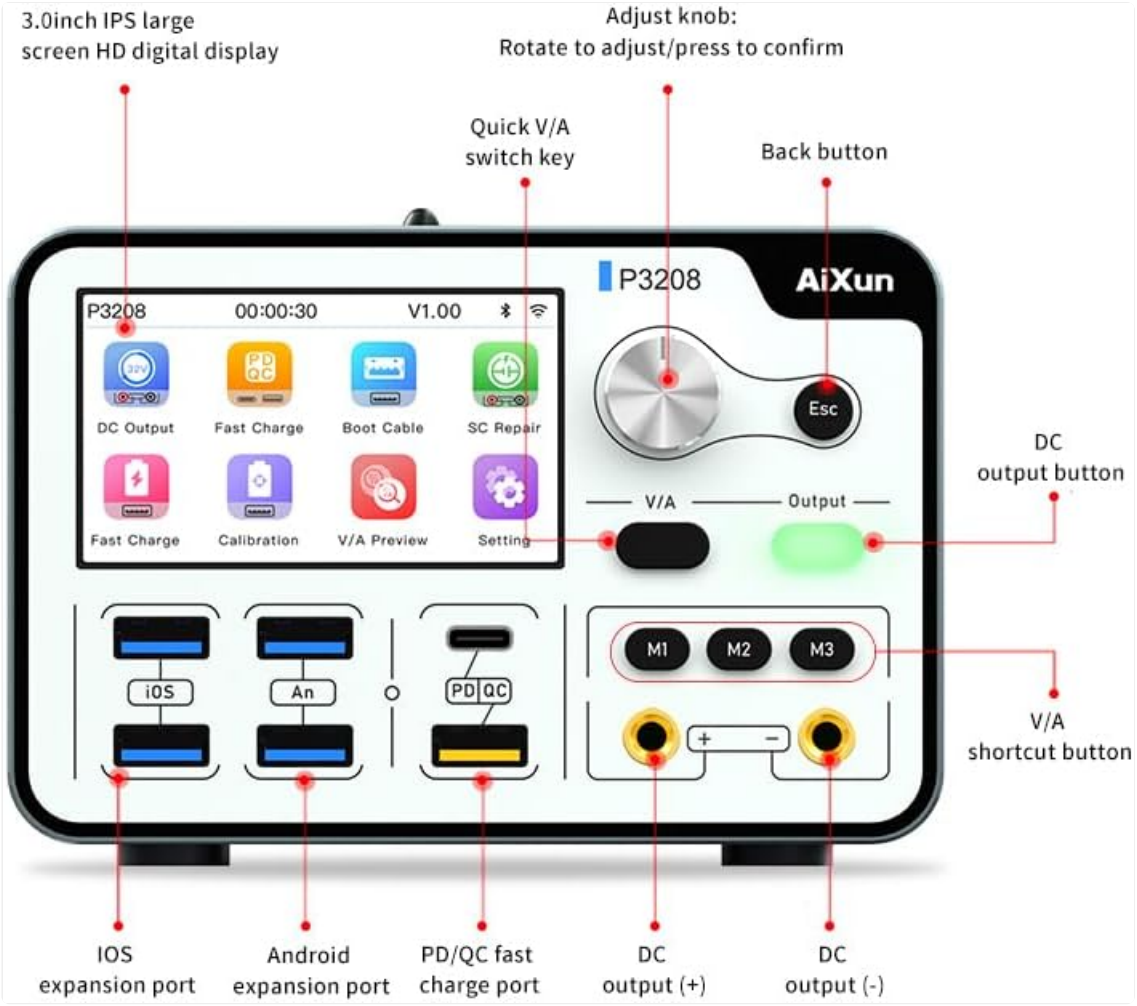

Figure 3.1: Front Panel Layout

3.0-inch IPS HD digital display: Shows current, voltage, settings, and other operational data.

Adjust knob: Rotate to adjust values, press to confirm selections.

Quick V/A switch key: Toggles between voltage and current adjustment modes.

Back button (Esc): Returns to the previous menu or cancels an operation.

DC output button: Activates or deactivates the DC power output.

V/A shortcut buttons (M1, M2, M3): Quickly recall preset voltage and current parameters.

iOS expansion port: For connecting iOS devices or specific test cables.

Android expansion port: For connecting Android devices or specific test cables.

PD/QC fast charge port: Type-C and Type-A ports supporting Power Delivery and Quick Charge protocols.

DC output (+): Positive terminal for DC power output.

DC output (-): Negative terminal for DC power output.

Figure 3.2: AiXun P3208 Main Unit

This image shows the overall design of the P3208 power supply, highlighting its compact and robust construction.

4. Setup

Follow these steps to set up your P3208 power supply for the first time.

1. **Unpack the Device:** Carefully remove the P3208 and all accessories from the packaging. Verify that all components listed in the packing list are present.

Figure 4.1: Included Accessories

The package includes the P3208 unit, 3 HUB cables, 1 Banana head cable, 1 Ground lead, 15 7-14 power on connectors, and 1 Power adapter.

2. **Connect Power:** Connect the provided power adapter to the AC input port on the rear of the P3208. Plug the power adapter into a suitable AC outlet (AC110V±10%).
3. **Connect Ground Lead:** For safety, connect the ground lead to the designated ground terminal on the P3208 and to a reliable earth ground.
4. **Initial Power On:** Press the power button to turn on the device. The 3.0-inch IPS display will illuminate, showing the boot-up sequence.

5. Operating Instructions

5.1 Basic Operation: Setting Voltage and Current

1. From the main screen, use the adjust knob to navigate to the "DC Output" icon and press the knob to select.
2. The display will show current voltage and current settings.
3. Rotate the adjust knob to change the desired voltage or current value. Press the "Quick V/A switch key" to toggle between adjusting voltage and current.
4. Once the desired values are set, press the adjust knob to confirm.

5. Press the "DC output button" to enable the power output. The button will illuminate green when active.

5.2 Fast Charging Protocols (PD/QC)

The P3208 supports Power Delivery (PD) and Quick Charge (QC) protocols for rapid device charging.

Figure 5.1: Dual Channel Fast Charging
The P3208 offers dual channel PD/QC simultaneous fast charge with a single channel power of 60W and dual channel power of 30W. It detects charging voltage and current in real-time.

- Connect your compatible device to the PD/QC fast charge port (Type-C or Type-A).
- The P3208 will automatically detect the device's charging protocol and deliver the appropriate voltage and current.
- Monitor the charging status and real-time parameters on the display.

5.3 One-Key Boot for iPhone Batteries (6-14 Protocols)

This feature allows for convenient testing and repair of iPhone motherboards without needing a connected battery.

Figure 5.2: iPhone One-Key Boot Function

The P3208 supports iPhone 6-14 battery protocols, enabling one-key booting for convenient repair and testing of iPhone motherboards.

1. Connect the appropriate iPhone power-on connector (7-14 series) to the iOS expansion port.
2. Connect the other end of the cable to the iPhone motherboard.
3. Navigate to the "Boot Cable" function on the P3208 display and select it.
4. The device will initiate the one-key boot process, allowing you to test the motherboard.

5.4 Connecting to AiXun Platform for Data Analysis

The P3208 can connect to the AiXun platform for advanced data analysis and monitoring.

Figure 5.3: AiXun Platform Connectivity

Connect the P3208 to the AiXun platform via WiFi, Bluetooth, or Type-C for intuitive data analysis on a PC. Download the AiXun platform software from www.aixuntech.com.

- **Via Type-C:** Connect the P3208 to your computer using a Type-C cable.
- **Via WiFi/Bluetooth:** Enable WiFi or Bluetooth on the P3208 and connect to your network/device as per the on-screen instructions.
- Download and install the AiXun platform software from the official AiXun website (www.aixuntech.com).
- Launch the software and follow the prompts to connect to your P3208 device.
- Once connected, you can view real-time data, analyze curves, and manage settings from your PC.

5.5 Shortcut Settings (M1, M2, M3)

The P3208 allows you to save and recall up to three custom voltage and current parameter sets.

1. Set your desired voltage and current values as described in Section 5.1.
2. Press and hold one of the M1, M2, or M3 shortcut buttons until the display indicates the parameters have been saved.
3. To recall a saved setting, simply press the corresponding M1, M2, or M3 button. The device will instantly apply the stored voltage and current.

5.6 Display Modes

The P3208 offers flexible display options for monitoring current and voltage.

- Navigate to the "Setting" menu on the display.
- Select "Display Mode" or a similar option.
- Choose between "Curve Display" (graphical representation of data over time) or "Pointer Display" (analog-style meter).

6. Specifications

Detailed technical specifications for the AiXun P3208 Smart Regulated Power Supply.

Feature	Specification
Model Name	P3208
Input Voltage	AC110V±10%
Max Power	320W
Max Fast Charge Power (Single Channel)	60W
Max Fast Charge Power (Dual Channel)	30W
Output Current Range	0-8A
Collecting Precision	0.1mA
Fast Charge Protocols	PD, QC
Communication	Type-C, WiFi, Bluetooth
Screen Size	3.0 inch IPS (640x360px)
Product Dimensions (L x W x H)	129 x 198.5 x 85 MM (5.08 x 7.81 x 3.35 inches)
Item Weight	1230g (6.6 pounds)
Manufacturer	AiXun

7. Maintenance

Proper maintenance ensures the longevity and reliable operation of your P3208 power supply.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use abrasive cleaners or solvents. Ensure the device is powered off and unplugged before cleaning.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Ventilation:** Ensure that the ventilation openings are not blocked during operation.
- **Cable Management:** Avoid sharp bends or kinks in cables. Store cables neatly to prevent damage.

8. Troubleshooting

This section addresses common issues you might encounter with your P3208 power supply.

Problem	Possible Cause	Solution
Device does not power on.	No power supply; faulty power adapter; power button not pressed correctly.	Check power cable connection; ensure outlet has power; try a different power outlet; press power button firmly.
No output voltage/current.	Output not enabled; incorrect settings; overloaded circuit.	Press the DC output button to enable output; verify voltage/current settings; reduce load or check for short circuit.
Display is blank or frozen.	Software error; temporary glitch.	Power off the device, wait 10 seconds, then power on again. If issue persists, contact support.
Fast charging not working.	Device not compatible with PD/QC; faulty cable; incorrect port used.	Ensure your device supports PD/QC; try a different USB cable; use the dedicated PD/QC fast charge port.

9. Warranty and Support

AiXun provides support for its products. For warranty information, technical assistance, or service, please contact AiXun customer support.

To ensure the authenticity of your product and receive timely support, it is recommended to purchase directly from the official AiXun Amazon store or authorized resellers.

For the latest information and support resources, please visit the official AiXun website:www.aixuntech.com

Figure 9.1: Authenticity and Support Tip

This image emphasizes the importance of purchasing from the official AiXun Amazon store to ensure product authenticity and access reliable customer support.