

APW171215a

Generic APW171215a Power Supply User Manual

For Bitmain Antminer S21, T21, KS5, KS5Pro ASIC Miners

1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation of your Generic APW171215a Power Supply Unit (PSU). This PSU is specifically designed to meet the demanding power requirements of Bitmain Antminer S21, T21, KS5, and KS5Pro ASIC mining equipment. Please read this manual thoroughly before installation and use to ensure proper setup and optimal performance.

2. SAFETY INFORMATION

Always adhere to the following safety guidelines to prevent injury or damage to the equipment:

- **Electrical Hazard:** This device operates with high voltage. Do not open the PSU casing. Only qualified personnel should perform repairs.
- **Proper Grounding:** Ensure the power supply and connected mining equipment are properly grounded to prevent electrical shock.
- **Ventilation:** Maintain adequate airflow around the PSU. Do not block ventilation openings. Overheating can lead to damage or fire.
- **Environment:** Operate the PSU in a dry, well-ventilated area, away from moisture, dust, and extreme temperatures.
- **Power Cables:** Use only appropriate, undamaged power cables. Ensure all connections are secure before powering on.
- **Emergency Shutdown:** Know the location of the main power switch for immediate shutdown in case of an emergency.

3. PRODUCT OVERVIEW

The Generic APW171215a Power Supply is a robust unit designed for high-performance ASIC mining. It features multiple cooling fans and standard ATX connectors for seamless integration.

Key Features:

- **Compatibility:** Specifically designed for Bitmain Antminer S21, T21, KS5, and KS5Pro ASIC mining equipment.
- **Power Output:** Delivers reliable and consistent power for optimal mining performance.

- **Installation:** Features standard connections for quick setup and integration with supported Antminer models.
- **Efficiency:** Engineered to provide stable power delivery while maintaining operational effectiveness for mining rigs.
- **Design:** Professional-grade PSU built to handle the power demands of current-generation ASIC mining hardware.

Product Components:



Figure 3.1: Top view of the power supply unit, showing the three integrated cooling fans and power input port. The unit is shown within its packaging.



Figure 3.2: Side view of the power supply unit, highlighting the product label with model number APW171215a and serial number DGQG335BDJEED2561. This label provides important identification details for the unit.



Figure 3.3: Bottom view of the power supply unit, displaying the manufacturer's label from Shenzhen Century Cloud Core Technologies Limited, including input specifications and certification marks.



Figure 3.4: Side view of the power supply unit, showing it wrapped in protective plastic, indicating a new or recently packaged state. A warning label is visible on the plastic.

4. SETUP AND INSTALLATION

Follow these steps to properly install your APW171215a Power Supply with your Bitmain Antminer:

1. **Unpack the PSU:** Carefully remove the power supply from its packaging. Inspect for any visible damage.
2. **Prepare the Environment:** Ensure your mining rig location is clean, dry, and has adequate ventilation.
3. **Mount the PSU:** Securely mount the APW171215a PSU in the designated slot or area within your mining rig chassis. Ensure it is stable and does not obstruct airflow.
4. **Connect Power Cables:** Connect the ATX power cables from the PSU to the corresponding power input ports on your Bitmain Antminer S21, T21, KS5, or KS5Pro. Ensure all connections are firm and correctly oriented.
5. **Connect AC Input:** Plug the AC power cord into the PSU's power inlet. Then, connect the other end of the AC power cord to a grounded electrical outlet. Use a power outlet capable of handling the PSU's maximum wattage (1215W).

- 6. **Verify Connections:** Double-check all power connections to ensure they are secure and correctly installed before proceeding.

5. OPERATING INSTRUCTIONS

Once the PSU is installed and all connections are verified, you can power on your mining equipment:

- **Power On:** Flip the main power switch on the PSU to the 'ON' position. The cooling fans should start operating.
- **Monitor Initial Boot:** Observe your Antminer for proper boot-up sequence. Refer to your Antminer's manual for specific boot indicators.
- **Normal Operation:** The PSU will provide stable power to your miner. Ensure continuous airflow and monitor operating temperatures.
- **Power Off:** To shut down, first power off your Antminer through its software interface (if applicable), then flip the main power switch on the PSU to the 'OFF' position.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and stable performance of your PSU:

- **Dust Removal:** Periodically clean dust from the PSU's fan grilles and ventilation openings using compressed air. Ensure the PSU is powered off and unplugged before cleaning.
- **Cable Inspection:** Regularly inspect all power cables for signs of wear, fraying, or damage. Replace any damaged cables immediately.
- **Environmental Check:** Ensure the operating environment remains within recommended temperature and humidity ranges.
- **Fan Check:** Listen for unusual noises from the cooling fans, which could indicate a problem.

7. TROUBLESHOOTING

If you encounter issues with your APW171215a Power Supply, refer to the table below for common problems and solutions:

Problem	Possible Cause	Solution
PSU does not power on.	No AC power, faulty power cable, PSU switch off.	Check AC power connection, replace power cable, ensure PSU switch is ON.
Miner not receiving power.	Loose DC power connections, PSU fault.	Verify all DC power cables are securely connected to the miner.
PSU fans are excessively loud or not spinning.	Dust accumulation, fan malfunction, overheating.	Clean fans, ensure proper ventilation. If fans are faulty, contact support.
System instability or shutdowns.	Overload, overheating, faulty PSU.	Reduce load if possible, improve ventilation, check for PSU fault.

8. SPECIFICATIONS

Detailed technical specifications for the APW171215a Power Supply:

Feature	Detail
Model Name	APW171215a (Apw17)
Brand	Generic
Compatible Devices	Bitmain Antminer KS5, Bitmain Antminer KS5Pro, Bitmain Antminer S21, Bitmain Antminer T21
Connector Type	ATX
Output Wattage	1215 Watts
Cooling Method	Air
Item Dimensions (L x W x H)	9.84 x 10.24 x 2.56 inches
Item Weight	4.5 Kilograms
Power Supply Design	Non-Modular
Manufacturer	pstaroth

9. WARRANTY INFORMATION

According to the product information, there is no specific warranty description provided for this APW171215a Power Supply. Please refer to the seller's return policy or contact the seller directly for any inquiries regarding product guarantees or returns.

10. SUPPORT

For further assistance, technical support, or inquiries not covered in this manual, please contact the retailer or manufacturer directly. Ensure you have your product model number (APW171215a) and any relevant purchase details available when seeking support.