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› KLVN APW7 1800W Server Power Supply User Manual

## KLVN APW7

# KLVN APW7 1800W Server Power Supply User Manual

Model: APW7

## 1. INTRODUCTION

This user manual provides essential information for the safe and efficient operation of your KLVN APW7 1800W Server Power Supply. Please read this manual thoroughly before installation and use, and retain it for future reference. This power supply is specifically designed for cryptocurrency mining equipment, including Bitmain Antminer models such as S9i, L3++, D3, V9, X3, E3, and Z9 mini.

## 2. SAFETY INFORMATION

**WARNING: Improper installation or use can lead to electric shock, fire, or damage to equipment. Always follow safety guidelines.**

- Ensure the power supply is disconnected from the main power source before installation, cleaning, or maintenance.
- Do not operate the power supply in wet or damp conditions.
- Ensure proper ventilation around the power supply to prevent overheating.
- Do not open the power supply casing. There are no user-serviceable parts inside.
- Use only compatible power cables and connectors.
- Verify that the input voltage matches the requirements of your region (100-264V ultra-wide voltage supported).

## 3. PRODUCT OVERVIEW

### 3.1. Description

The KLVN APW7 is a high-performance 1800W server power supply designed for demanding cryptocurrency mining operations. It features a robust metal shell and a rectangular parallelepiped shape. The air flow direction is optimized, running from the AC input to the DC output, which is consistent with most mining equipment for efficient heat management. The PCB is coated with a conformal layer to protect against voltage spark discharges and

environmental contaminants.

### 3.2. Features

- **High Power Output:** 1800W at 12V, suitable for various ASIC miners.
- **Wide Voltage Input:** Supports 100-264V AC.
- **Multiple Connectors:** Equipped with 10 PCI-E 6-pin connectors (5 pairs).
- **Optimized Cooling:** Air cooling with a dedicated fan for efficient heat dissipation.
- **Enhanced Durability:** Internal components rated for 105°C, ensuring a longer lifespan in high-temperature mining environments.
- **Conformal Coating:** PCB protected against environmental damage.

### 3.3. Protective Functions

The APW7 power supply incorporates several protective features to ensure safe and stable operation:

- **Input Undervoltage Protection:** Activates between 80-89V AC.
- **Output Short Circuit Protection:** Yes.
- **Output Overcurrent Protection:** Activates between 150-220A MAX.
- **Over Temperature Protection:** Yes.

# PROTECTIVE FUNCTION:

INPUT UNDERVOLTAGE PROTECTION VALUE: 80-89V AC

OUTPUT SHORT CIRCUIT PROTECTION: YES

OUTPUT OVERCURRENT PROTECTION VALUE: 150-220A MAX

OVER TEMPERATURE PROTECTION: YES



*Image: KLVN APW7 Power Supply highlighting its protective functions.*

## 4. SETUP

1. **Unpacking:** Carefully remove the power supply from its packaging. Inspect for any visible damage.
2. **Placement:** Position the power supply in a well-ventilated area, ensuring that the cooling fan and power cord interface (located at the front) have unobstructed airflow. Avoid placing it near heat sources or in enclosed spaces.
3. **Connecting to Mining Equipment:**

# 1800W



*Image: KLVN APW7 Power Supply showing the array of PCI-E 6-pin connectors.*

Connect the 6-pin PCI-E connectors from the APW7 power supply to the corresponding power input ports on your mining equipment (e.g., Antminer S9i, L3++). The APW7 provides 10 connectors, sufficient for many ASIC mining devices.

#### **4. Connecting AC Power:**



*Image: Rear view of the KLVN APW7 Power Supply, showing the AC power input and cooling fan.*

Plug a compatible AC power cord into the power input socket on the power supply. Then, connect the other end of the AC power cord to a grounded electrical outlet. Ensure the outlet can handle the 1800W load.

5. **Power On:** Once all connections are secure, switch on the power supply. The cooling fan should activate, indicating power is supplied.

## 5. OPERATING INSTRUCTIONS

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The KLVN APW7 is designed for continuous operation in mining environments. Observe the following guidelines:

- **Environmental Temperature:** The APW7 can operate stably in ambient temperatures up to 50°C.
- **Temperature Management:** If ambient temperatures exceed 50°C, the power supply should be underclocked to prevent damage. Refer to the manufacturer's specifications for detailed load vs. ambient temperature graphs if available.
- **Load Management:** Ensure the total power draw of your connected devices does not exceed the 1800W capacity of the power supply.
- **Airflow:** Maintain clear airflow paths to and from the power supply to ensure effective cooling.

## 6. MAINTENANCE

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- **Cleaning:** Periodically clean the exterior of the power supply and the fan vents to prevent dust buildup. Use a soft, dry cloth or compressed air. Ensure the power supply is disconnected from all power sources before cleaning.
- **Inspection:** Regularly inspect power cables and connectors for any signs of wear, damage, or loose connections.
- **Environment:** Keep the operating environment free from excessive dust, moisture, and corrosive substances.

## 7. TROUBLESHOOTING

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If you encounter issues with your KLVN APW7 power supply, consider the following:

- **No Power:**

- Check if the AC power cord is securely connected to both the power supply and the wall outlet.
- Verify the wall outlet is functional.
- Ensure the power supply's main switch (if present) is in the 'ON' position.

- **Intermittent Power/System Instability:**

- Confirm all PCI-E 6-pin connectors are firmly seated in the mining equipment.
- Check for signs of overheating. Ensure adequate ventilation.
- Reduce the load on the power supply if operating in high ambient temperatures.

- **Unusual Noises:**

- A loud fan might indicate overheating or a dirty fan. Clean the fan vents.
- If unusual electrical noises are heard, immediately disconnect power and contact support.

If problems persist after following these steps, contact KLVN customer support for further assistance.

## 8. SPECIFICATIONS

|                      |                                             |
|----------------------|---------------------------------------------|
| Brand                | KLVN                                        |
| Model                | APW7                                        |
| Output Wattage       | 1800 Watts                                  |
| Input Voltage        | 100-264V AC                                 |
| Connector Type       | PCI Express (6-pin)                         |
| Number of Connectors | 10                                          |
| Cooling Method       | Air                                         |
| Fan Count            | 1                                           |
| Compatible Devices   | Antminer S9i, L3++, D3, V9, X3, E3, Z9 mini |
| Item Weight          | 1.1 pounds (approx. 500 Grams)              |

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official KLVN website. Keep your purchase receipt as proof of purchase for warranty claims.

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