

MEISHILE SE-1000-24

MEISHILE 24V 41.7A 1000W Switching Power Supply Adapter User Manual

Model: SE-1000-24

1. INTRODUCTION

This manual provides essential information for the safe and efficient use of your MEISHILE 24V 41.7A 1000W Switching Power Supply Adapter (Model: SE-1000-24). Please read these instructions carefully before installation and operation to ensure proper functionality and to prevent damage or injury.

2. SAFETY INFORMATION

WARNING: Risk of Electric Shock. This device operates with high voltage. All installation and maintenance should be performed by qualified personnel. Disconnect power before making any connections or adjustments.

- Ensure proper grounding of the power supply.
- Do not expose the unit to moisture or extreme temperatures.
- Verify input voltage selection (115V/230V) matches your local power grid before connecting.
- Do not use this power supply for BUCK-BOOST mode devices such as batteries, battery chargers, dimming lamps, speed governors, or PWM regulator modules.
- Ensure adequate ventilation around the unit to prevent overheating.
- Keep children away from the power supply during operation.

3. PRODUCT OVERVIEW

The MEISHILE SE-1000-24 is a high-efficiency switching power supply designed to convert AC input to a stable 24V DC output. It features a robust design with multiple protection mechanisms.

Key Features:

- **Advanced Cooling System:** Integrated cooling fan, aluminum heat sinks, cooling silicone film, and a hollow design for efficient heat dissipation and extended lifespan.
- **Durable Construction:** 2.0mm thickened aluminum shell, wear-resistant, pressure-resistant, and impact-resistant. Features a baking paint process for corrosion resistance.
- **Constant Voltage (CV) Output:** Provides a stable 24V DC output, manually adjustable from 22V to 25V.

- **Comprehensive Protection:** Includes overload, overcurrent, constant voltage, short circuit, and overvoltage protection.
- **High-Quality PCB:** Double-sided board with high-precision components, ensuring fast conduction response, low standby power consumption, and high efficiency.
- **Input Voltage Toggle:** Selectable AC input voltage (85-145V or 185-265V) via a side switch.

Components:

- AC Input Terminals (L, N, Ground)
- DC Output Terminals (+V, -V)
- Voltage Adjustment Potentiometer (ADJ)
- Cooling Fan
- Input Voltage Selector Switch (115V/230V)
- Mounting Holes

New Multi Mounting Holes

INTELLIGENT CHIP MULTIPLE PROTECTION

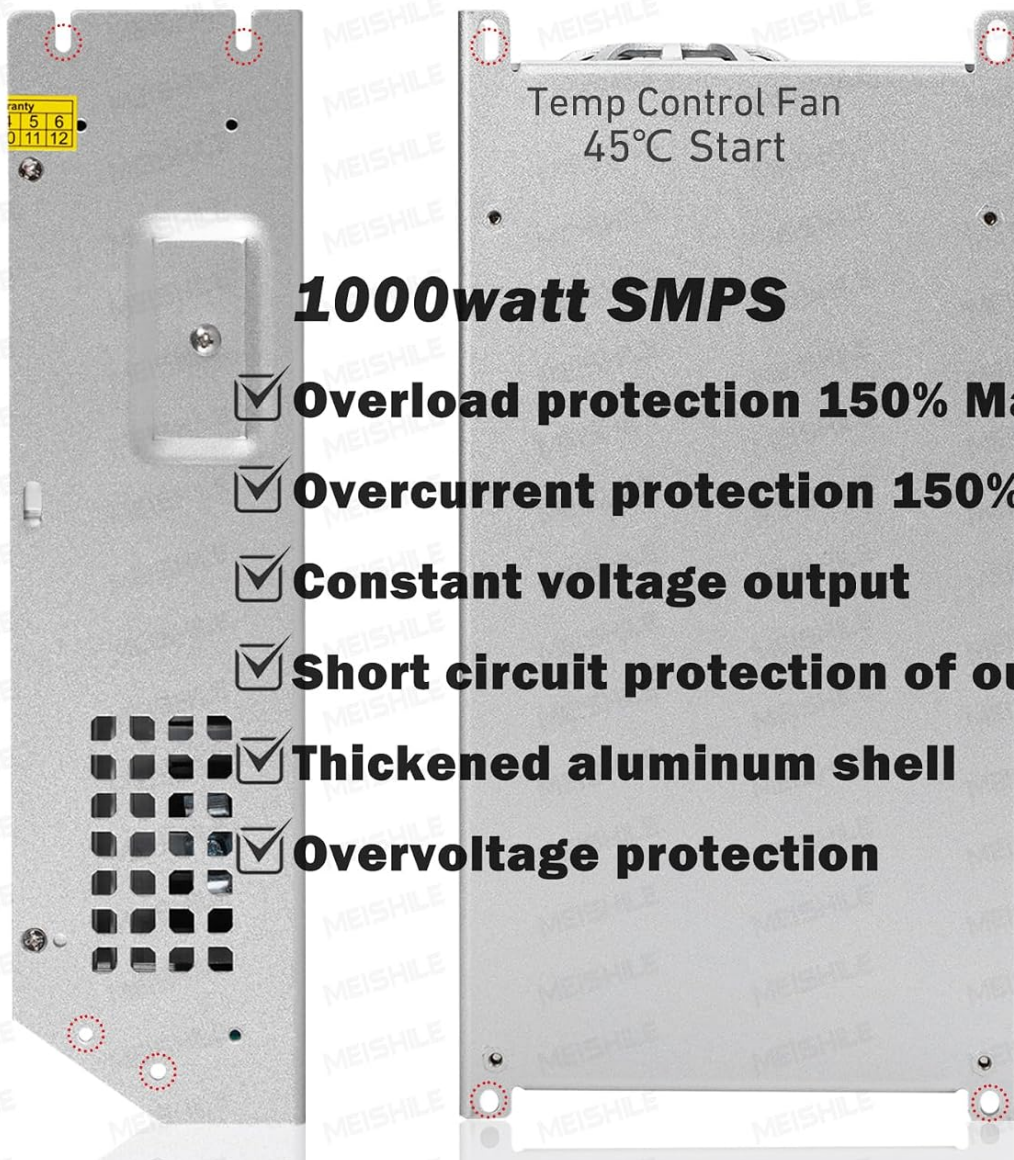


Image: Rear and side view of the MEISHILE 1000W power supply, highlighting new multi-mounting holes and protection features such as overload, overcurrent, constant voltage, short circuit, and overvoltage protection. It also shows the temperature-controlled fan starting at 45°C.

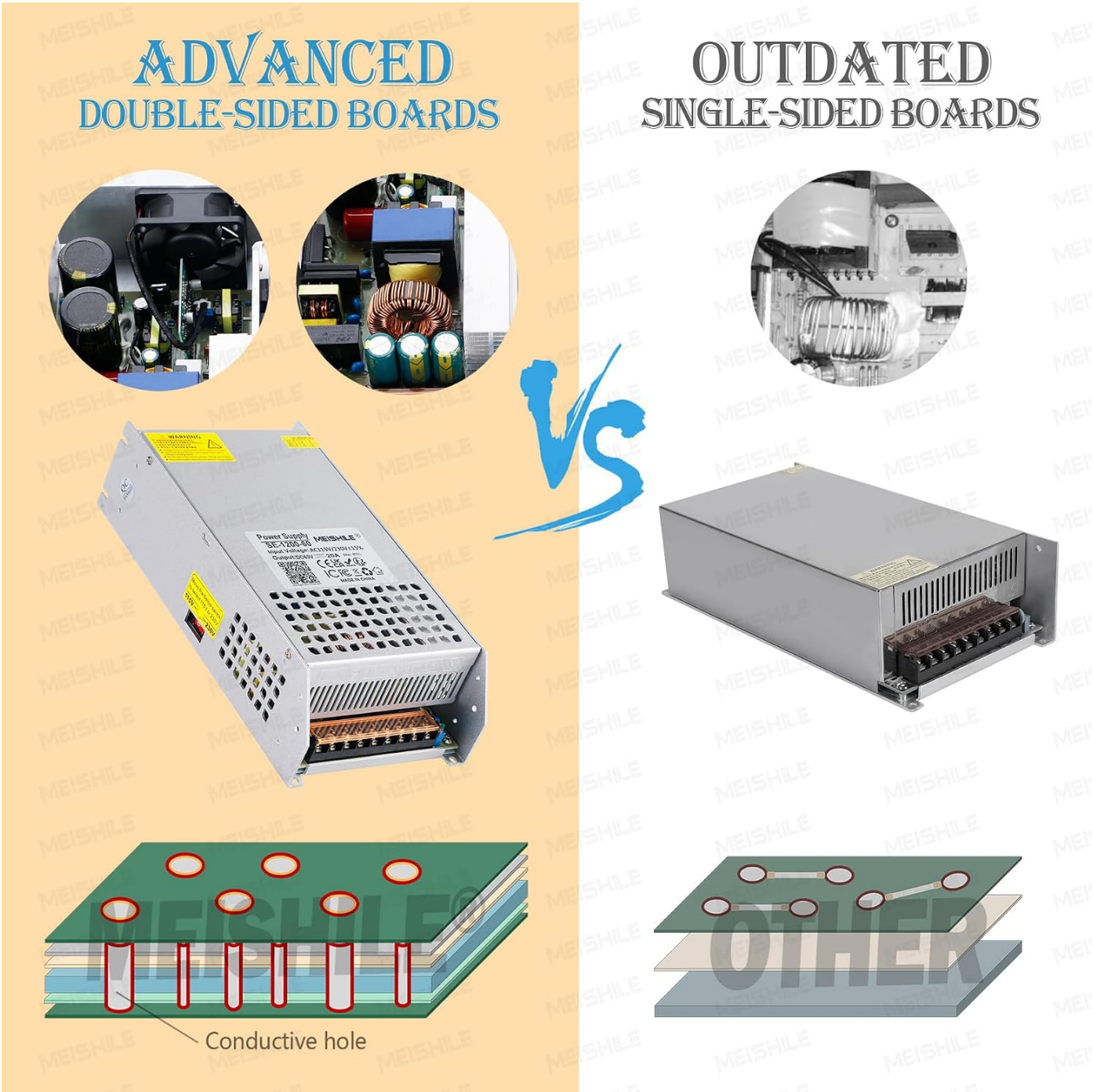


Image: A visual comparison illustrating the advanced double-sided PCB board used in the MEISHILE power supply versus an outdated single-sided board, emphasizing the conductive holes and superior design.

4. SPECIFICATIONS

Parameter	Value
Model	SE-1000-24
Input Voltage	AC 85-145V / 185-265V (selectable via toggle switch)
Output Voltage	DC 24V (adjustable 22-25V)
Rated Power	1000W
Rated Current	41.7A (Max. load 80%)
Output Voltage Difference	±1%

Parameter	Value
Overload Protection Point	110%-150% of rated current (46A-63A), Power off recovery
Cooling Fan Activation	Temperature controlled, starts at 113°F (45°C)
Product Dimensions (L x W x H)	9.65 x 4.92 x 2.55 inches (24.5 x 12.5 x 6.5 cm)
Item Weight	2.97 pounds (1.35 kg)
Material	Aluminum, Metal



Rated Power consumption	AC Input →DC Output	RECO. Output Load	Overload Protection
24V 1000W	DC 24V (adj 22~25V)	Suitable: 0~800W	46A~63A, Power off recovery

Image: Detailed view of the MEISHILE 1000W power supply, showing its physical dimensions in inches and centimeters, along with a table summarizing rated power consumption, AC input to DC output, recommended output load, and overload protection.

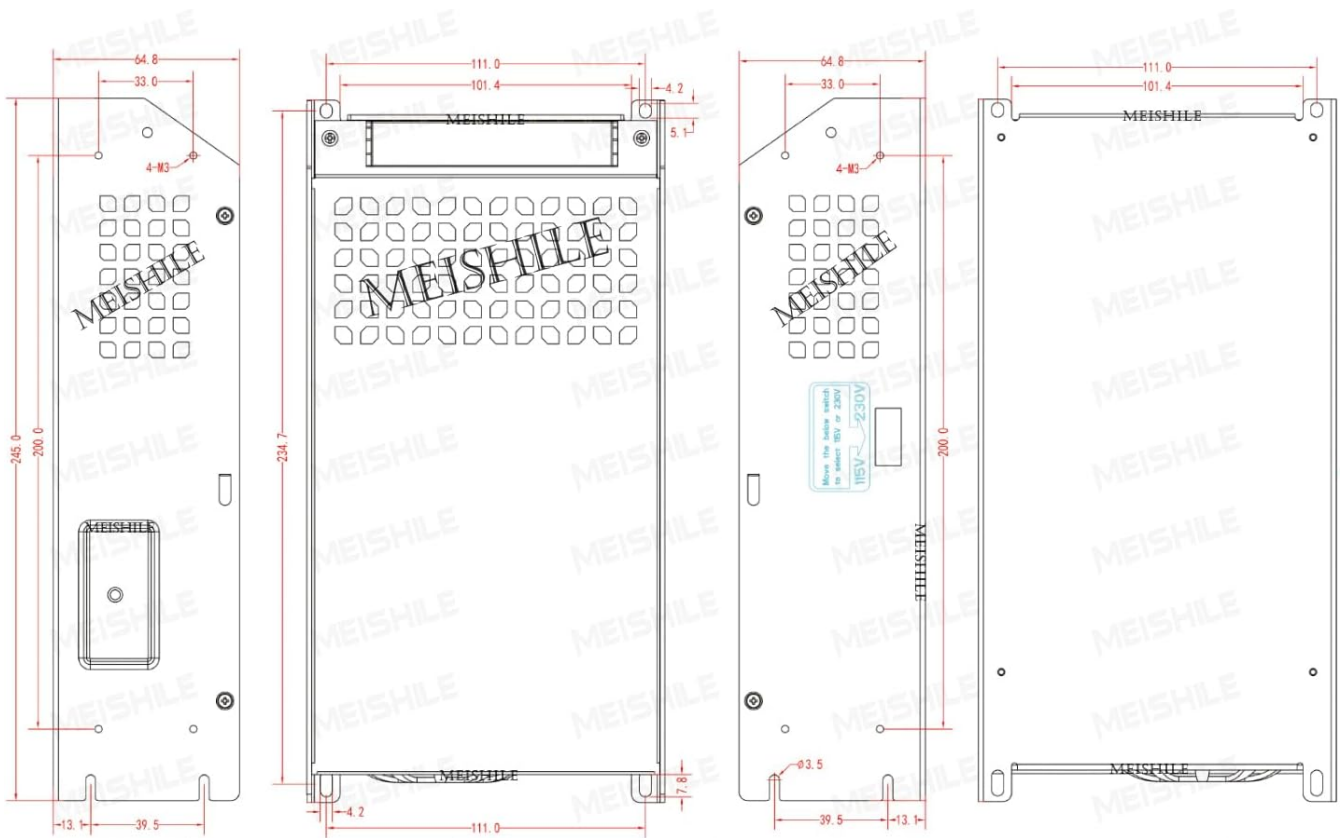


Image: A technical drawing providing multiple views (top, side, front) of the MEISHILE 1000W power supply with precise measurements for installation planning.

5. SETUP

5.1 Mounting

The power supply features multiple mounting holes for secure installation. Ensure the mounting surface is stable and allows for adequate airflow around the unit. Mount the power supply in a position that facilitates optimal heat dissipation, ideally with the fan facing an open area.



- ✓ Installation Is Quick And Easy
- ✓ Strong Power
- ✓ Efficient AC to DC
- ✓ CV Mode Stable Output

Skeletonized Al metal shell + Fan
for better heat dissipation and life

Image: A person using a drill to install the MEISHILE 1000W power supply, demonstrating the quick and easy installation process using the provided mounting holes.

5.2 Input Voltage Selection

Before connecting the AC input, locate the voltage selector switch on the side of the unit. Set it to either **115V (AC 85-145V)** or **230V (AC 185-265V)** according to your local power grid. Incorrect voltage selection can damage the unit.

5.3 Wiring Connections

Use appropriate gauge wiring for all connections. The wiring terminals are designed with cross screws for secure connections without damaging the wire. Ensure all connections are tight and correct.

- **AC Input:** Connect your AC power source to the L (Live), N (Neutral), and Ground terminals.
- **DC Output:** Connect your 24V DC load to the +V and -V terminals. Ensure correct polarity.

6. OPERATING INSTRUCTIONS

6.1 Powering On

After all connections are securely made and the input voltage is correctly selected, apply AC power to the unit. The power supply will begin operating, providing a stable 24V DC output.

6.2 Output Voltage Adjustment

The output voltage can be manually adjusted using the potentiometer labeled 'ADJ'. This allows for fine-tuning the output from 22V to 25V. Use a small screwdriver to carefully turn the potentiometer. Adjustments should be made while monitoring the output voltage with a multimeter.

6.3 Load Considerations

When selecting a power supply, it is crucial to match its capacity to your load requirements. The maximum peak value of your equipment should always be lower than the overload protection point of the switching power supply.

- **For Soft-start Devices:** Devices with a soft-start characteristic (e.g., LED lights) should be rated at 80% or less of the power supply's capacity. For example, a 150W light ($150W / 0.80 = 187.5W$) requires a power supply of 187.5W or more.
- **For Hard-start Devices:** Devices with a hard-start characteristic (e.g., motors, heaters) should be rated at 50% or less of the power supply's capacity due to high inrush current. For example, a 150W heater ($150W / 0.50 = 300W$) requires a power supply of 300W or more.

The rated power of the transformer (1000W) refers to its capacity during normal operation under load, not its no-load capacity.

7. MAINTENANCE

The MEISHILE SE-1000-24 power supply is designed for reliability and undergoes strict testing before leaving the factory. Minimal user maintenance is required.

- **Cleaning:** Periodically clean the exterior of the unit with a dry, soft cloth to prevent dust accumulation, especially around the fan and ventilation holes. Ensure the power supply is disconnected from all power sources before cleaning.
- **Ventilation:** Ensure that the ventilation openings are not obstructed. Proper airflow is critical for maintaining optimal operating temperature and preventing overheating.
- **Inspection:** Regularly inspect all wiring connections for tightness and signs of wear or damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No output voltage	No AC input power Incorrect input voltage selection Overload protection activated Short circuit in output	Check AC power source and connections Verify input voltage switch (115V/230V) Reduce load, disconnect power, then reconnect Check output wiring for shorts, then reconnect
Output voltage unstable or incorrect	ADJ potentiometer misadjusted Load too high Loose connections	Adjust ADJ potentiometer carefully Ensure load is within specified limits Check all wiring connections
Fan not operating	Unit not hot enough Fan malfunction	Fan activates at 113°F (45°C); normal if unit is cool If unit is hot and fan is off, contact support
Unit shuts down unexpectedly	Overload/Overcurrent protection Overheating	Reduce load, allow unit to cool, then restart Ensure proper ventilation, clear obstructions

9. WARRANTY AND SUPPORT

For detailed warranty information or technical support, please refer to the official MEISHILE website or contact your retailer. You may also find additional resources and a multilingual user manual by scanning the QR code provided on the product label or by visiting the MEISHILE store on Amazon.

Online Support: [Visit the MEISHILE Store on Amazon](#)

Additional Resources: [Access multilingual user manual and more](#)