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› MEISHILE 60V 10A 600W AC to DC Switching Power Supply User Manual

MEISHILE DIYSE-600-60

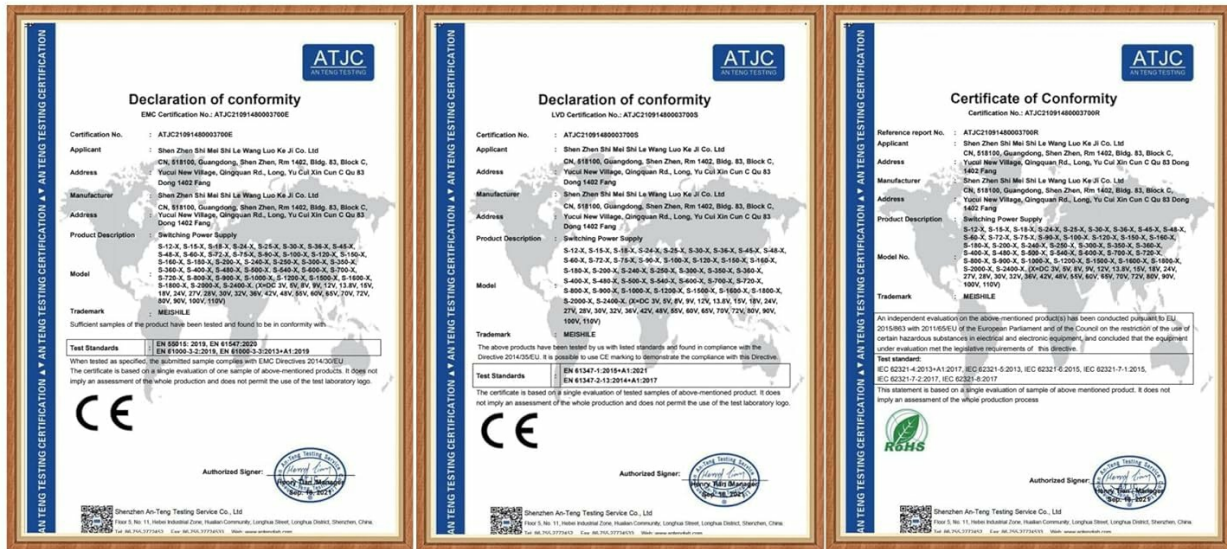
MEISHILE 60V 10A 600W AC to DC Switching Power Supply User Manual

Model: DIYSE-600-60

1. SAFETY INFORMATION AND WARNINGS

Important: This 60V power supply does not support programming. It cannot be used with devices operating in BUCK-BOOST mode, such as batteries, chargers, dimmers, regulators, or PWM modules. Ensure the maximum peak current of your device is below the power supply's overload protection point.

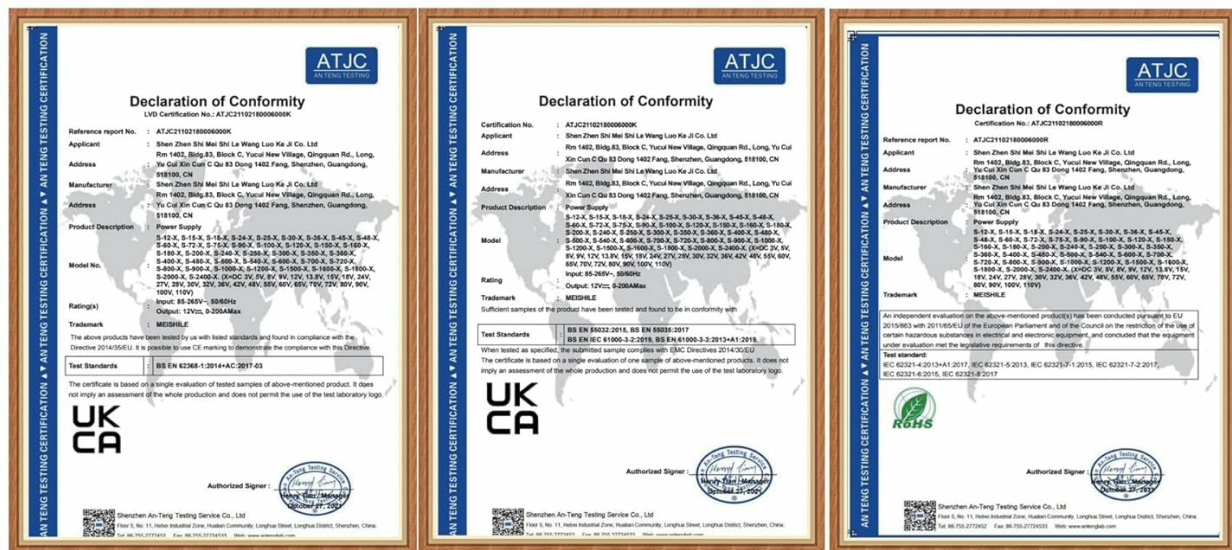
Always ensure proper ventilation. Do not cover the ventilation openings. This device is designed for indoor use in a dry environment. Disconnect power before making any connections or adjustments.



CE-EMC

CE-LVD

CE-ROHS



UKCA-EMC

UKCA-LVD

UK-ROHS

Image: The power supply unit displaying CE and UKCA certification labels, indicating compliance with European and UK safety standards.

2. PRODUCT OVERVIEW AND FEATURES

The MEISHILE 60V 10A 600W AC to DC Switching Power Supply (Model DIYSE-600-60) is designed for various applications requiring a stable 60V DC output. It features a robust construction and efficient power conversion.



Image: The MEISHILE 60V 10A 600W AC to DC Switching Power Supply, a robust industrial transformer.

Key Features:

- **Efficient AC to DC Conversion:** Provides stable constant voltage output.
- **Robust Construction:** Features pure copper terminals, a 1.6mm thickened aluminum casing, and a hollowed pattern for improved heat dissipation.
- **Advanced Cooling:** Integrated fan, aluminum heat sinks, and silicone film for effective cooling and extended lifespan. The fan operates when the unit is powered.
- **Safety Protections:** Includes overload protection (110%-150% of rated current), overcurrent protection, constant voltage output, and short circuit protection.
- **Versatile Input:** Supports full voltage input with a side toggle switch for AC 85-145V or 185-265V.
- **Adjustable Output:** DC 60V output is adjustable within a range of 57-63V.
- **Double-Sided PCB:** Utilizes a double-sided PCB for fast conduction response, low standby power consumption, and high efficiency.

Installation Is Quick And Easy

Efficient AC to DC

CV Mode Stable Output

Strong Power

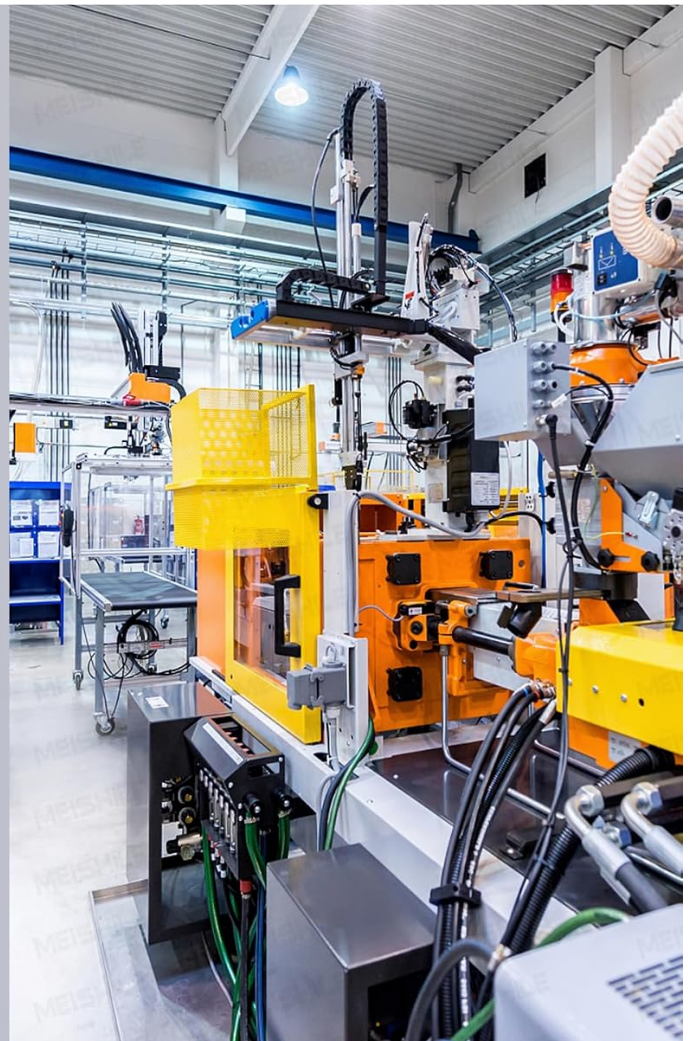
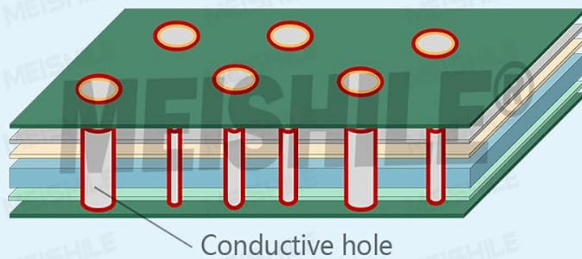
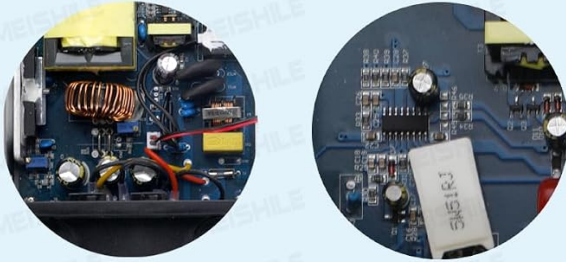


Image: The MEISHILE power supply unit shown in an industrial environment, highlighting its quick and easy installation and robust design.

ADVANCED DOUBLE-SIDED BOARDS



OUTDATED SINGLE-SIDED BOARDS

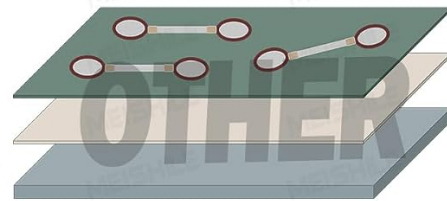


Image: A visual comparison illustrating the advanced double-sided PCB design used in this power supply versus older single-sided board technology, emphasizing improved conductivity and efficiency.

New Multi Mounting Holes

Intelligent chip, multiple protection

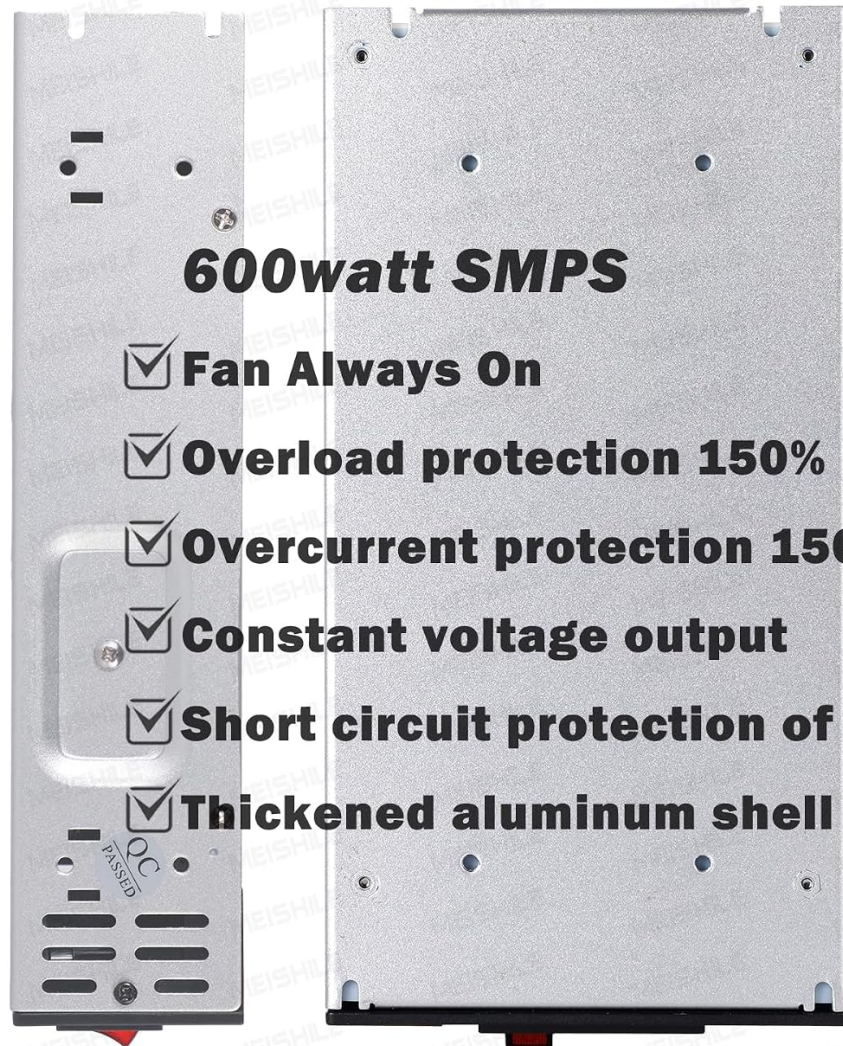


Image: A close-up view detailing the power supply's multi-mounting holes, 600W SMPS, always-on fan, and various protection features like overload, overcurrent, constant voltage, and short circuit protection, all housed in a thickened aluminum shell.

3. SETUP AND INSTALLATION

Before installation, ensure the power supply is disconnected from the main power source.

1. **Unpacking:** Carefully remove the power supply and included accessories (alligator clips, fixed knob, power cord) from the packaging.
2. **Input Voltage Selection:** Locate the side toggle switch for input voltage selection. Set it to the appropriate voltage for your region (AC 85-145V or 185-265V). **Incorrect voltage selection can damage the unit.**
3. **Mounting:** The power supply features multiple mounting holes for secure installation. Mount the unit in a location that allows for adequate ventilation and prevents obstruction of the fan and ventilation slots.
4. **Wiring:** Use the cylindrical terminal blocks for wiring. These terminals are designed for easy and secure connections. Refer to the wiring diagram below for correct connections.
 - Connect the AC input (L, N, Ground) to your main power source.
 - Connect the DC output (+V, -V) to your load device.

5. **Output Voltage Adjustment:** The DC output voltage is factory set to 60V but can be finely adjusted between 57-63V using the internal potentiometer. Use a small screwdriver to carefully turn the adjustment screw. Monitor the output voltage with a multimeter during adjustment.

For detailed wiring instructions and diagrams, please refer to the product documentation available via the QR code:
<http://qr61.cn/od0CBP/qqEdXcp>

New Multi Mounting Holes

230V (185~265V)
115V (85~145V)

Move the below switch to select 115V or 230V

230V
115V

Power Supply
SE-600-60
Input Voltage: AC115V/230V±15%
Output: DC60V.....10A (Max. 80%)

MEISHILE®

CE UK CA ROHS
IC FC
MADE IN CHINA

22.8cm / 8.98inch

5cm / 1.97inch

11.5cm / 4.53inch

Rated Power consumption	AC Input → DC Output	RECO. Output Load	Overload Protection
60V 600W	DC 60V (adj 57~63V)	Suitable: 0~480W	11A~15A, Power off recovery

Image: This image shows the physical dimensions of the power supply and highlights the input voltage selection switch (115V/230V) on the side, along with a detailed specification table.

4. OPERATING INSTRUCTIONS

Once properly installed and wired, the power supply is ready for operation.

1. **Power On:** Connect the power cord to a suitable AC outlet. The internal fan will activate upon power-on, indicating the unit is receiving power.
2. **Load Connection:** Ensure your load device is correctly connected to the DC output terminals.
3. **Monitoring:** While operating, the power supply maintains a constant voltage output. The fan will run continuously to ensure optimal operating temperature.

4. **Power Off:** Disconnect the power cord from the AC outlet to power off the unit.

Load Selection Guidance:

To ensure optimal performance and prevent overload, consider the following guidelines when selecting a power supply for your application:

- For devices with a **soft start** (e.g., LED lights), where the maximum peak current is 80% or less of the rated current, calculate the required power by dividing the device's wattage by 0.8. For example, a 150W light ($150W / 0.8 = 187.5W$) requires a power supply of 187.5W or higher.
- For devices with a **hard start** (e.g., heaters, motors), where the maximum peak current can be 50% or less of the rated current, calculate the required power by dividing the device's wattage by 0.5. For example, a 150W heater ($150W / 0.5 = 300W$) requires a power supply of 300W or higher.

5. MAINTENANCE

The MEISHILE power supply is designed for durability and requires minimal maintenance.

- **Cleaning:** Periodically clean the exterior of the unit and ensure the ventilation slots are free from dust and debris. Use a soft, dry cloth. Do not use liquid cleaners.
- **Inspection:** Regularly inspect the power cord and terminal connections for any signs of wear, damage, or loose connections.
- **Ventilation:** Ensure the power supply always has adequate airflow around it to prevent overheating.

No user-serviceable parts are inside. Refer all servicing to qualified personnel.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
No power output / Unit not turning on	◦ Power cord not connected or faulty. ◦ Incorrect input voltage selected. ◦ Blown fuse (internal, not user-serviceable). ◦ Overload protection activated.	◦ Check power cord connection and wall outlet. ◦ Verify the input voltage switch setting matches your mains supply. ◦ Disconnect load, power cycle the unit. If problem persists, contact support. ◦ Reduce load, then power cycle.
Output voltage is incorrect	◦ Output voltage adjustment potentiometer misset. ◦ Faulty load device.	◦ Adjust the output voltage using a multimeter to verify. ◦ Test the power supply with a different, known-good load.

Problem	Possible Cause	Solution
Unit overheats	◦ Insufficient ventilation. ◦ Fan obstruction or failure. ◦ Overloaded beyond specifications.	◦ Ensure adequate space around the unit for airflow. ◦ Clean dust from fan and vents. If fan is not spinning, contact support. ◦ Reduce the connected load to within specified limits.

If troubleshooting steps do not resolve the issue, please contact customer support.

7. SPECIFICATIONS

Specification	Value
Model Number	DIYSE-600-60
Input Voltage	AC 85-145V / 185-265V (selectable via switch)
Output Voltage	DC 60V (Adjustable 57-63V)
Output Current	10A (Rated), Max. Load 80%
Rated Power	600W
Voltage Tolerance	±1%
Overload Protection	110%-150% of rated current (11A-15A), Power failure recovery
Cooling	Integrated Fan (operates when powered)
Dimensions (L x W x H)	21.8 x 11.5 x 5 cm (8.58 x 4.53 x 1.97 inches)
Net Weight	0.79 kg (1.74 lbs)
Gross Weight	1.26 kg (2.78 lbs)
Certifications	CE, UKCA
Included Components	DC Switching Power Supply, Multilingual User Manual, Power Cord, Alligator Clips, Wiring Terminals and Accessories

8. WARRANTY AND SUPPORT

MEISHILE is committed to providing long-term support for its products. Each power supply undergoes rigorous testing for approximately 2 hours within 6 hours prior to delivery to ensure quality and reliability.

If you have any questions or encounter issues with your product, please contact our customer service team immediately. Our team has years of experience in the power supply field and is ready to assist you with pre-sales and after-sales support.

A multilingual user manual is available and has been uploaded to the Product Guide and Documentation section.

For further assistance, please visit the MEISHILE brand store: [MEISHILE Brand Store](#)