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SKY TOPPOWER PS1330A

SKY TOPPOWER PS1330A 13.8V 30A Power Supply

User Instruction Manual

Model: PS1330A | Brand: SKY TOPPOWER

1. Introduction

The SKY TOPPOWER PS1330A is a compact and universal 13.8V 30A AC/DC power supply designed for a wide range of applications, including ham radio, laboratory work, and general electronics. It provides a stable 13.8V DC output with a maximum current of 30 amperes and a continuous current of 20 amperes. Additionally, it features a convenient 5V 2A USB charging port for electronic devices. This power supply incorporates safety features such as short-circuit and overcurrent protection, along with an integrated cooling fan to ensure stable operation and extended product life.

2. Safety Instructions

- **Read all instructions:** Before operating the device, thoroughly read and understand this manual.
- **Indoor use only:** This power supply is designed for indoor use in dry environments. Do not expose it to rain or moisture.
- **Proper ventilation:** Ensure adequate ventilation around the unit. Do not block the ventilation openings.
- **Power source:** Connect the power supply only to a grounded AC outlet with the specified voltage (AC 230V, 50Hz).
- **Avoid overloading:** Do not exceed the maximum output current of 30A. Continuous operation should not exceed 20A. Overloading can damage the unit and connected devices.
- **Correct polarity:** Always ensure correct polarity when connecting devices to the DC output terminals. Incorrect polarity can cause damage.
- **Not for DC motors:** This power supply is not suitable for direct connection to DC motors.
- **Fuse replacement:** The unit contains a user-replaceable 6A fuse. Only replace with a fuse of the same type and rating.
- **Servicing:** Do not attempt to service this unit yourself. Refer all servicing to qualified personnel.

3. Package Contents

Verify that all items are present in the package:

- 1 x SKY TOPPOWER PS1330A 13.8V 30A DC Power Supply
- 1 x AC Power Cable
- 1 x User Manual

4. Product Overview

Familiarize yourself with the components and interfaces of your PS1330A power supply.



Figure 4.1: Front and Rear Panel Overview. This image displays the key components of the power supply, including the power switch, DC output terminals, USB port, cooling fan, and AC input with fuse holder.

4.1 Front Panel

- **Power Indicator:** A blue LED light that illuminates when the unit is powered on.
- **ON/OFF Switch:** Toggles the main power to the unit.
- **DC Output Terminals (OUT 13.8V MAX 30A):** Red (+) and Black (-) screw-type terminals for connecting devices requiring 13.8V DC power.
- **USB Charging Port (5V/2A):** A standard USB-A port providing 5V DC at up to 2A for charging compatible electronic devices.

4.2 Rear Panel

- **Cooling Fan:** An integrated fan that activates automatically to dissipate heat and maintain optimal operating temperature.
- **AC Input:** Socket for connecting the provided AC power cable.
- **Fuse Holder:** Contains a user-replaceable 6A fuse for overcurrent protection.

5. Setup

5.1 Connecting to AC Power

1. Ensure the power supply's ON/OFF switch is in the "OFF" position.
2. Connect one end of the provided AC power cable to the AC Input socket on the rear panel of the power supply.
3. Plug the other end of the AC power cable into a standard, grounded AC wall outlet (230V, 50Hz).

5.2 Connecting Devices to DC Output

Use appropriate cables with bare wire ends or banana plugs for connection.



Figure 5.1: Connecting to DC Output Terminals. The image illustrates the screw-type terminals, which allow for secure connection of wires for various applications.

1. Ensure the power supply is OFF.
2. Identify the positive (+) and negative (-) terminals on your device.
3. Loosen the red (+) terminal on the power supply and insert the positive wire from your device. Tighten the terminal securely.
4. Loosen the black (-) terminal on the power supply and insert the negative wire from your device. Tighten the

terminal securely.

5. Double-check all connections for correct polarity and secure fastening before powering on.

6. Operating Instructions

6.1 Powering On/Off

- To turn on the power supply, flip the ON/OFF switch to the "ON" position. The blue power indicator light will illuminate.
- To turn off the power supply, flip the ON/OFF switch to the "OFF" position. The power indicator light will turn off.

6.2 Using the DC Output

Once powered on, the power supply will provide a stable 13.8V DC output through the red and black terminals. Monitor your connected device's current draw to ensure it does not exceed the power supply's maximum ratings (30A peak, 20A continuous).

6.3 Using the USB Charging Port

The integrated 5V 2A USB port can be used to charge various electronic devices.

Figure 6.1: USB Charging Function. This image shows a smartphone connected to and charging from the power supply's USB port.

1. Connect your USB charging cable to the USB port on the front panel.
2. Connect the other end of the cable to your electronic device (e.g., smartphone, tablet).
3. The power supply does not need to be actively supplying 13.8V DC to other devices for the USB port to function.

7. Applications

The SKY TOPPOWER PS1330A is suitable for powering a wide array of devices and applications:

Figure 7.1: Wide Range of Applications. This graphic illustrates the versatility of the power supply for different electronic devices.

- **Ham Radios:** Ideal for powering amateur radio equipment.
- **CB Radios:** Compatible with Citizens Band radio transceivers.
- **Scanners:** Provides stable power for radio scanners.
- **Laboratory Benches:** Suitable for various experimental setups requiring a stable 13.8V DC source.
- **Electronic Devices:** Can power other 13.8V compatible electronic equipment.

Figure 7.2: Diverse Usage Scenarios. This image collage demonstrates the power supply's utility in different environments, from vehicles to dedicated radio rooms.

8. Cooling System

The PS1330A features an intelligent, integrated cooling fan located on the rear panel. This fan automatically activates when the internal temperature rises, ensuring efficient heat dissipation. This mechanism helps maintain stable operating conditions, prevents overheating, and contributes to the longevity of the power supply.

9. Maintenance

9.1 Cleaning

- Ensure the power supply is turned off and unplugged from the AC outlet before cleaning.
- Use a soft, dry cloth to wipe the exterior of the unit.
- Do not use liquid cleaners or solvents, as they may damage the casing or internal components.
- Periodically check the ventilation openings for dust accumulation and gently clean them with a soft brush or compressed air to ensure proper airflow.

9.2 Fuse Replacement

The power supply is equipped with a user-replaceable 6A fuse for protection against overcurrents.

1. Turn off the power supply and unplug it from the AC outlet.
2. Locate the fuse holder on the rear panel.
3. Use a small flat-head screwdriver to gently pry open or unscrew the fuse holder cap.
4. Remove the old fuse.
5. Insert a new fuse of the exact same type and rating (6A).
6. Securely close the fuse holder cap.

10. Troubleshooting

If you encounter issues with your PS1330A power supply, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
No power indicator light, unit does not turn on.	• Power cable not connected. • AC outlet faulty. • Blown fuse.	• Check AC power cable connection. • Test AC outlet with another device. • Replace the fuse (refer to Section 9.2).
Low or unstable output voltage under load.	• Overload on DC output. • Faulty connection to device.	• Reduce the load on the power supply. Ensure total current draw is within specifications (max 30A, continuous 20A). • Check all DC output connections for secure and correct wiring.
USB charging port not working.	• Faulty USB cable or device. • Internal issue.	• Try a different USB cable and/or device. • If the issue persists, contact customer support.

Problem	Possible Cause	Solution
Unit overheats or fan runs constantly/loudly.	• Blocked ventilation. • Excessive load.	• Ensure ventilation openings are clear. • Reduce the load on the power supply.

If the problem persists after attempting these solutions, please contact SKY TOPPOWER customer support.

11. Specifications

Technical specifications for the SKY TOPPOWER PS1330A power supply:

Figure 11.1: Stable Output Voltage. This image shows the power supply delivering a consistent 13.8V, as measured by a digital multimeter.

Feature	Specification
Model Number	PS1330A
Input Voltage	AC 230V ± 10% 50Hz
Output Voltage	DC 13.8V (Fixed)
Maximum Output Current	30A
Continuous Output Current	20A
Output Power	414 Watts
USB Output	5V 2A
Cooling Method	Integrated Fan
Protection Features	Short-circuit protection, Overcurrent protection, Overvoltage protection
Fuse Rating	6A (User-replaceable)
Dimensions (L x W x H)	8.66 x 5.91 x 2.76 inches (approx. 22 x 15 x 7 cm)
Weight	Less than 1.5 kg

12. Warranty and Support

SKY TOPPOWER is committed to providing professional technical support. With over 20 years of engineering experience, our team is available to assist you with any questions regarding our regulated power supplies.

- **Technical Support:** If you have any questions or require assistance, please do not hesitate to contact us. Refer to the product packaging or the official SKY TOPPOWER website for contact details.

- **Warranty:** Specific warranty terms and conditions may vary by region and retailer. Please retain your proof of purchase for warranty claims.

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