

EAPRO 1700VA - 24V - 50Amp

EAPRO 1700VA - 24V - 50Amp Hybrid Solar UPS Inverter PCU User Manual

Model: 1700VA - 24V - 50Amp

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1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your EAPRO 1700VA - 24V - 50Amp Hybrid Solar UPS Inverter PCU. Please read all instructions carefully before installation and use. This device is designed to provide reliable power backup and optimize energy usage by integrating solar power with grid electricity.

2. SAFETY INSTRUCTIONS

Adhering to these safety guidelines is crucial for preventing electric shock, fire, and damage to the unit or connected equipment.

- **Installation:** Ensure installation is performed by qualified personnel.
- **Ventilation:** Install the unit in a well-ventilated area to prevent overheating. Maintain adequate clearance around the unit.
- **Environment:** Avoid exposure to direct sunlight, moisture, dust, and corrosive substances. Operate within specified temperature and humidity ranges.
- **Battery Safety:** Batteries contain corrosive acid. Wear protective gear when handling. Do not short-circuit battery terminals.
- **Grounding:** The unit must be properly grounded to prevent electrical hazards.
- **Servicing:** Do not attempt to open or service the unit yourself. Refer all servicing to authorized service personnel.
- **Emergency:** In case of smoke, unusual odors, or abnormal operation, immediately disconnect the power

supply and contact customer support.

3. PRODUCT OVERVIEW

The EAPRO Hybrid Solar UPS Inverter PCU features a user-friendly front panel for monitoring and control.



The image displays the front panel of the EAPRO Hybrid Solar UPS Inverter PCU. It features a green digital display showing '12.0V' and a battery icon, indicating voltage and battery status. To the left of the display are two circular buttons: 'MODE (UPS)' and 'HIGH/LOW' (with a wavy line icon). To the right are two more circular buttons: 'ON/OFF' (with a power symbol) and 'POWER SAVING' (with a starburst icon). The EAPRO logo is prominently displayed below the screen, with 'GLOBALLY TRUSTED TECHNOLOGY' underneath. The model name 'SOLAR H-1700' is visible on the bottom right.

Front Panel Components:

- **Digital Display:** Shows real-time information such as voltage, battery charge level, and operational status.
- **MODE (UPS) Button:** Toggles between different operating modes, including UPS mode for uninterrupted power supply.
- **HIGH/LOW Button:** Adjusts voltage sensitivity settings for connected appliances.

- **ON/OFF Button:** Powers the unit on or off.
- **POWER SAVING Button:** Activates or deactivates the power-saving mode to conserve energy.

4. SETUP

4.1 Unpacking

Carefully remove the unit from its packaging. Inspect for any shipping damage. Retain packaging for future transport or storage.

4.2 Placement

- Place the inverter on a flat, stable surface.
- Ensure adequate ventilation by maintaining at least 10 cm clearance around all sides.
- Avoid placing near heat sources, flammable materials, or in direct sunlight.
- The operating environment should be dry and free from excessive dust.

4.3 Battery Connection

1. Ensure the inverter is OFF before connecting batteries.
2. Connect the positive (+) terminal of the battery to the positive (+) terminal of the inverter.
3. Connect the negative (-) terminal of the battery to the negative (-) terminal of the inverter.
4. Ensure all connections are tight and secure. Incorrect polarity can cause severe damage.

4.4 Solar Panel Connection (Optional)

If connecting solar panels, ensure they are compatible with the inverter's specifications (24V, 50Amp charge controller). Connect the solar panel output to the designated solar input terminals on the inverter, observing correct polarity.

4.5 AC Input Connection

Connect the inverter's AC input cable to a grounded wall outlet. Ensure the outlet provides stable voltage within the inverter's specified input range.

4.6 Load Connection

Connect your appliances to the output sockets of the inverter. Do not overload the inverter beyond its rated capacity (1700VA / 1700 Watts).

5. OPERATING INSTRUCTIONS

5.1 Turning On/Off

- **To Turn On:** Press and hold the 'ON/OFF' button for a few seconds until the display illuminates.
- **To Turn Off:** Press and hold the 'ON/OFF' button again until the display turns off.

5.2 Mode Selection

Press the 'MODE (UPS)' button to cycle through available operating modes. The display will indicate the currently selected mode.

- **UPS Mode:** Provides uninterrupted power to connected loads by switching to battery power instantly during a

grid outage.

- **High/Low Voltage Mode:** Use the 'HIGH/LOW' button to adjust the input voltage window. This helps protect sensitive equipment from voltage fluctuations.
- **Power Saving Mode:** Press the 'POWER SAVING' button to enable or disable this feature. In power-saving mode, the inverter consumes less power when the load is low, extending battery backup time.

5.3 Display Interpretation

The digital display provides critical information:

- **Voltage (e.g., 12.0V):** Indicates the battery voltage or output voltage.
- **Battery Icon:** Shows the approximate battery charge level.
- **Indicators (UPS, ON, TIME):** These labels on the display correspond to the current operational status or displayed value.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your inverter.

- **Cleaning:** Keep the unit clean and free from dust. Use a dry, soft cloth. Do not use liquid cleaners.
- **Ventilation:** Periodically check that ventilation openings are not blocked.
- **Battery Care:** Ensure battery terminals are clean and free from corrosion. If using lead-acid batteries, check electrolyte levels periodically and top up with distilled water if necessary.
- **Connections:** Regularly inspect all electrical connections for tightness and signs of wear or damage.
- **Storage:** If storing the unit for an extended period, ensure batteries are fully charged and disconnect them. Recharge batteries every 3-6 months to prevent deep discharge.

7. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Inverter does not turn on.	No battery connection or low battery voltage.	Check battery connections. Ensure batteries are charged.
No output power.	Overload, short circuit, or battery low.	Reduce connected load. Check for short circuits in wiring. Charge batteries.
Unit beeps continuously.	Overload or low battery.	Reduce load. Allow batteries to charge.
Battery not charging.	AC input not connected, solar panels not connected/faulty, or charger fault.	Check AC input. Verify solar panel connections and output. Contact service if issue persists.

8. SPECIFICATIONS

Key technical specifications for the EAPRO 1700VA - 24V - 50Amp Hybrid Solar UPS Inverter PCU:

- **Brand:** EAPRO

- **Model:** 1700VA - 24V - 50Amp
- **Output Power:** 1700 Watts
- **Electrical Output Waveform:** Pure Sine Wave
- **Frequency:** 50 Hz
- **Power Source:** Battery Powered (Hybrid Solar/Grid)
- **Recommended Uses:** Home
- **ASIN:** B07XZGQ563

9. WARRANTY & SUPPORT

For warranty information, service, or technical support, please refer to the warranty card included with your product or contact EAPRO customer service. Keep your purchase receipt as proof of purchase.