

EAPRO EGSINE1500

EAPRO EGSINE1500 1050VA/12V Home and Office Inverter User Manual

1. INTRODUCTION

Thank you for choosing the EAPRO EGSINE1500 1050VA/12V Home and Office Inverter. This device is designed to provide reliable and efficient power backup for your home and office appliances. Featuring pure sine wave output, an automatic stabilizer, and advanced battery charging capabilities, it ensures stable and uninterrupted power supply. Please read this manual carefully before installation and operation to ensure proper use and maximize the lifespan of your inverter.

2. SAFETY INFORMATION

- **Read all instructions:** Before operating the inverter, read and understand all safety and operating instructions.
- **Ventilation:** Ensure adequate ventilation around the inverter. Do not block any ventilation openings.
- **Location:** Install the inverter in a dry, cool, and well-ventilated area, away from direct sunlight, heat sources, and flammable materials.
- **Battery Safety:** Connect the inverter to a 12V battery only. Ensure correct polarity (+ to + and - to -) to prevent damage. Batteries can produce explosive gases; keep sparks and open flames away.
- **Grounding:** The inverter must be properly grounded to prevent electric shock.
- **Qualified Personnel:** Installation and servicing should only be performed by qualified personnel.
- **Avoid Overload:** Do not connect loads exceeding the inverter's rated capacity (880W).
- **Water and Moisture:** Do not expose the inverter to rain, water, or excessive moisture.
- **Emergency Disconnect:** Know how to quickly disconnect power in an emergency.

3. PRODUCT OVERVIEW

The EAPRO EGSINE1500 is a robust inverter designed for reliable power conversion and backup. It features a compact design with essential connections and indicators.

3.1 Rear Panel Connections



Figure 1: Rear Panel of EAPRO EGSINE1500 Inverter

This image displays the rear panel of the EAPRO Inverter, highlighting the AC input port, positive (+) and negative (-) battery terminals for 12V DC connection, and a 'PRESS TO RESET' button. A cooling fan and product label are also visible.

- **AC INPUT:** Connect the main power supply cable here.
- **AC OUTPUT:** Connect your appliances to this output.
- **(+) BATTERY (-):** Terminals for connecting the 12V DC battery. Ensure correct polarity.
- **PRESS TO RESET:** Button to reset the inverter in case of an error or overload.
- **Cooling Fan:** Helps dissipate heat during operation.

3.2 Product Specifications Label

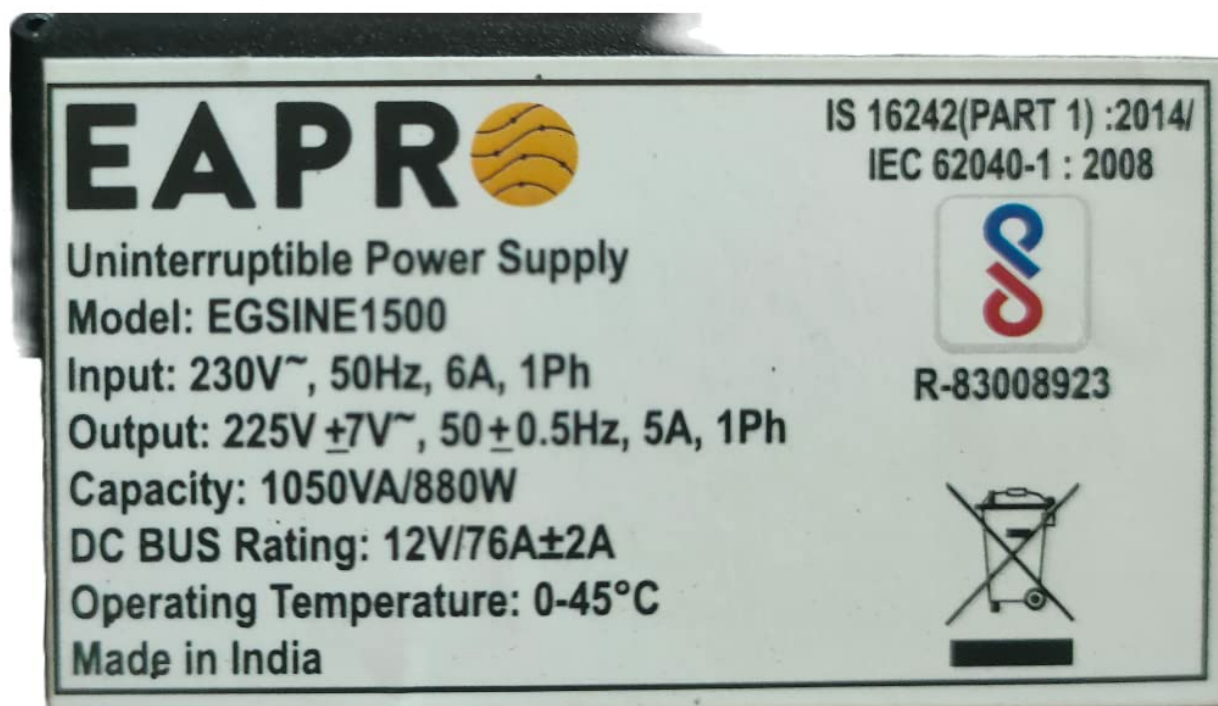


Figure 2: EAPRO EGSINE1500 Specification Label

This label provides detailed specifications for the EAPRO Uninterruptible Power Supply, Model EGSINE1500. It lists Input: 230V~, 50Hz, 6A, 1Ph; Output: 225V $\pm 7V$ ~, 50 ± 0.5 Hz, 5A, 1Ph; Capacity: 1050VA/880W; DC BUS Rating: 12V/76A ± 2 A; and Operating Temperature: 0-45°C. It also indicates 'Made in India' and compliance with IS 16242 (PART 1): 2014 / IEC 62040-1: 2008 standards.

3.3 Product Appearance



Figure 3: EAPRO EGSINE1500 Product Packaging

The product packaging for the EAPRO Inverter, featuring the brand logo 'EAPRO POWER WITH BRAIN' and an image of the inverter unit. The box highlights 'INDIA'S ONLY BOOST UPS' and mentions 'BUILT IN AUTOMATIC STABILIZER' and 'PURE SINE WAVE TECHNOLOGY'.

4. SETUP INSTRUCTIONS

Follow these steps for safe and correct installation of your EAPRO EGSINE1500 inverter:

1. **Unpack the Inverter:** Carefully remove the inverter from its packaging and inspect for any shipping damage.
2. **Choose a Location:** Select a dry, cool, and well-ventilated area. Ensure there is sufficient space around the inverter for airflow.
3. **Connect the Battery:**
 - Ensure the inverter is OFF and unplugged from the mains.
 - Connect the red cable from the inverter's (+) terminal to the positive (+) terminal of your 12V battery.
 - Connect the black cable from the inverter's (-) terminal to the negative (-) terminal of your 12V battery.
 - Ensure all connections are tight and secure. Incorrect polarity will damage the inverter and battery.

- 4. **Connect AC Input:** Plug the inverter's AC input cable into a grounded wall outlet.
- 5. **Connect Appliances:** Plug your desired appliances into the AC OUTPUT sockets on the inverter. Do not exceed the total rated load of 880W.
- 6. **Initial Power On:** Turn on the inverter's power switch. Observe the indicator lights for normal operation.

5. OPERATING INSTRUCTIONS

The EAPRO EGSINE1500 inverter is designed for user-friendly operation.

- **Power On/Off:** Use the main power switch on the inverter to turn the unit ON or OFF.
- **Mains Mode:** When AC input power is available, the inverter will charge the battery and supply power to connected appliances directly from the mains, utilizing its built-in automatic stabilizer.
- **Inverter Mode:** In case of a power outage or mains voltage fluctuation outside the acceptable range, the inverter will automatically switch to battery power, providing uninterrupted power to your appliances. This transition is typically seamless.
- **Battery Charging:** The inverter features intelligent battery charging, capable of charging even at low mains voltage (as low as 90V).
- **Emergency Power Boost:** This feature provides a temporary boost in power output when needed, ensuring critical appliances continue to run during peak demands.
- **Indicators:** Pay attention to the LED indicators on the front panel (if present) which typically show status like Mains ON, Battery Charging, Inverter ON, Overload, and Battery Low. Refer to the product's physical labels for specific indicator meanings.

6. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your inverter.

- **Keep Clean:** Regularly clean the exterior of the inverter with a dry cloth. Ensure ventilation openings are free from dust and debris.
- **Check Connections:** Periodically inspect battery terminals and AC connections for tightness and corrosion. Clean any corrosion with a wire brush and apply petroleum jelly to prevent future corrosion.
- **Battery Health:** For lead-acid batteries, check electrolyte levels periodically and top up with distilled water if necessary. Follow battery manufacturer's maintenance guidelines.
- **Avoid Overloading:** Do not consistently operate the inverter at its maximum load capacity. This can reduce efficiency and lifespan.
- **Storage:** If storing the inverter for an extended period, ensure the battery is fully charged and disconnect it from the inverter. Recharge the battery every 3-6 months to prevent deep discharge.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your EAPRO EGSINE1500 inverter.

Problem	Possible Cause	Solution
Inverter not turning ON	Battery not connected or low charge; Main switch OFF; Blown fuse.	Check battery connections and charge level; Turn ON main switch; Check and replace fuse if necessary (by qualified personnel).

Problem	Possible Cause	Solution
No output power in inverter mode	Battery deeply discharged; Overload; Inverter fault.	Allow battery to charge; Reduce connected load; Press 'PRESS TO RESET' button; If problem persists, contact support.
Overload indicator ON	Connected load exceeds inverter capacity.	Disconnect some appliances to reduce the load. Press 'PRESS TO RESET' button.
Battery not charging	Mains power not available; AC input cable loose; Charger fault.	Check mains power supply; Ensure AC input cable is securely plugged in; Contact support if charger fault is suspected.
Unusual noise or smell	Internal fault; Overheating.	Immediately turn OFF the inverter and disconnect from mains and battery. Contact customer support.

8. SPECIFICATIONS

Feature	Specification
Model	EGSINE1500
Capacity	1050VA / 880W
Input Voltage (AC)	230V~, 50Hz, 6A, 1Ph
Output Voltage (AC)	225V $\pm$ 7V~, 50 $\pm$ 0.5Hz, 5A, 1Ph (Pure Sine Wave)
DC BUS Rating	12V / 76A $\pm$ 2A
Battery Voltage	12V DC
Operating Temperature	0-45°C
Dimensions (LxWxH)	33 x 32.5 x 18.5 cm
Item Weight	2.27 kg
Manufacturer	EAPRO GLOBAL LTD.
Compliance	IS 16242 (PART 1): 2014 / IEC 62040-1: 2008

9. WARRANTY AND SUPPORT

EAPRO products are manufactured under strict quality control standards. For warranty information, please refer to the warranty card included with your product or contact your local EAPRO dealer. For technical assistance or service, please contact EAPRO customer support with your product model number and purchase details.



