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› Kemot Prosinus-2600 Pure Sine Wave Inverter Emergency Power Supply User Manual

Kemot 2600

Kemot Prosinus-2600 Pure Sine Wave Inverter Emergency Power Supply

Model: 2600

INTRODUCTION

The Kemot Prosinus-2600 Emergency Power Supply is a pure sine wave inverter designed to provide reliable backup power for various devices during power outages. It features a charging function for external batteries and offers three distinct operating modes: Emergency Power Supply, Charging, and Inverter. This system ensures the continuous operation of critical equipment and protects against power fluctuations, including overloads, short circuits, and voltage irregularities.

This device is suitable for applications requiring a stable power supply, such as home appliances, camping equipment, and vehicle use. It is particularly effective with phase-sensitive devices like certain gas furnaces, maintaining a fixed phase regardless of the power source (mains or battery).

SAFETY INSTRUCTIONS

Please read and understand all safety instructions before operating the Kemot Prosinus-2600. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Read the Manual:** Always read the entire instruction manual before installation and operation.
- **Ventilation:** Ensure adequate ventilation around the unit to prevent overheating. Do not block ventilation openings.
- **Environment:** Do not expose the unit to water, moisture, rain, or snow. Operate in a dry, well-ventilated area.
- **Grounding:** Ensure the unit is properly grounded according to local electrical codes.
- **Do Not Open:** Do not attempt to open or disassemble the unit. There are no user-serviceable parts inside. Refer all servicing to qualified personnel.
- **Battery Safety:** Use only appropriate 24V external batteries. Observe correct polarity when connecting batteries. Batteries can produce explosive gases; ensure good ventilation when charging.
- **Load Capacity:** Do not exceed the rated output power of 1800 Watts. Overloading can damage the unit and connected devices.
- **Children and Pets:** Keep the unit out of reach of children and pets.

PRODUCT OVERVIEW

Familiarize yourself with the components and connections of your Kemot Prosinus-2600 unit.



Figure 1: Front view of the Kemot Prosinus-2600 Emergency Power Supply, showing the main display and carrying handles.



Figure 2: Rear panel of the Kemot Prosinus-2600, detailing the 24VDC battery input terminals, 230V AC input, two 230V AC output sockets, circuit breaker, and charger current indicators.

Key Components:

- **Display Panel:** Shows operational status, voltage, and battery level.
- **ON/OFF Switch:** Controls the main power to the unit.
- **Battery 24VDC Input:** Terminals for connecting an external 24V battery (positive and negative).
- **AC Input 230V:** Socket for connecting the unit to the main AC power supply.
- **AC Output Sockets:** Two 230V AC sockets for connecting electrical appliances.
- **Circuit Breaker:** Provides overload protection for the unit.
- **Charger Current Indicator:** LEDs (10A/15A) indicating the charging current.
- **Cooling Fan:** Automatically activates to dissipate heat during operation.

SETUP

Follow these steps for initial setup of your Kemot Prosinus-2600.

1. **Unpacking:** Carefully remove the unit from its packaging. Inspect for any signs of damage.
2. **Placement:** Place the unit on a stable, flat surface in a well-ventilated area, away from direct sunlight, heat sources, and moisture. Ensure sufficient clearance for airflow around the cooling fan.
3. **Battery Connection:**
 - Ensure the unit is OFF before connecting the battery.
 - Connect the positive (+) terminal of your external 24V battery to the red (+) terminal on the unit.
 - Connect the negative (-) terminal of your external 24V battery to the black (-) terminal on the unit.
 - Secure all connections tightly to prevent arcing.
4. **AC Input Connection:** Plug the unit's AC input cable into a standard 230V AC wall outlet.
5. **Connecting Loads:** Plug your appliances (loads) into the 230V AC output sockets on the unit. Ensure the total power consumption of connected devices does not exceed 1800 Watts.
6. **Initial Power-On:** Flip the ON/OFF switch to the 'ON' position. The display panel will illuminate, indicating the unit is operational.

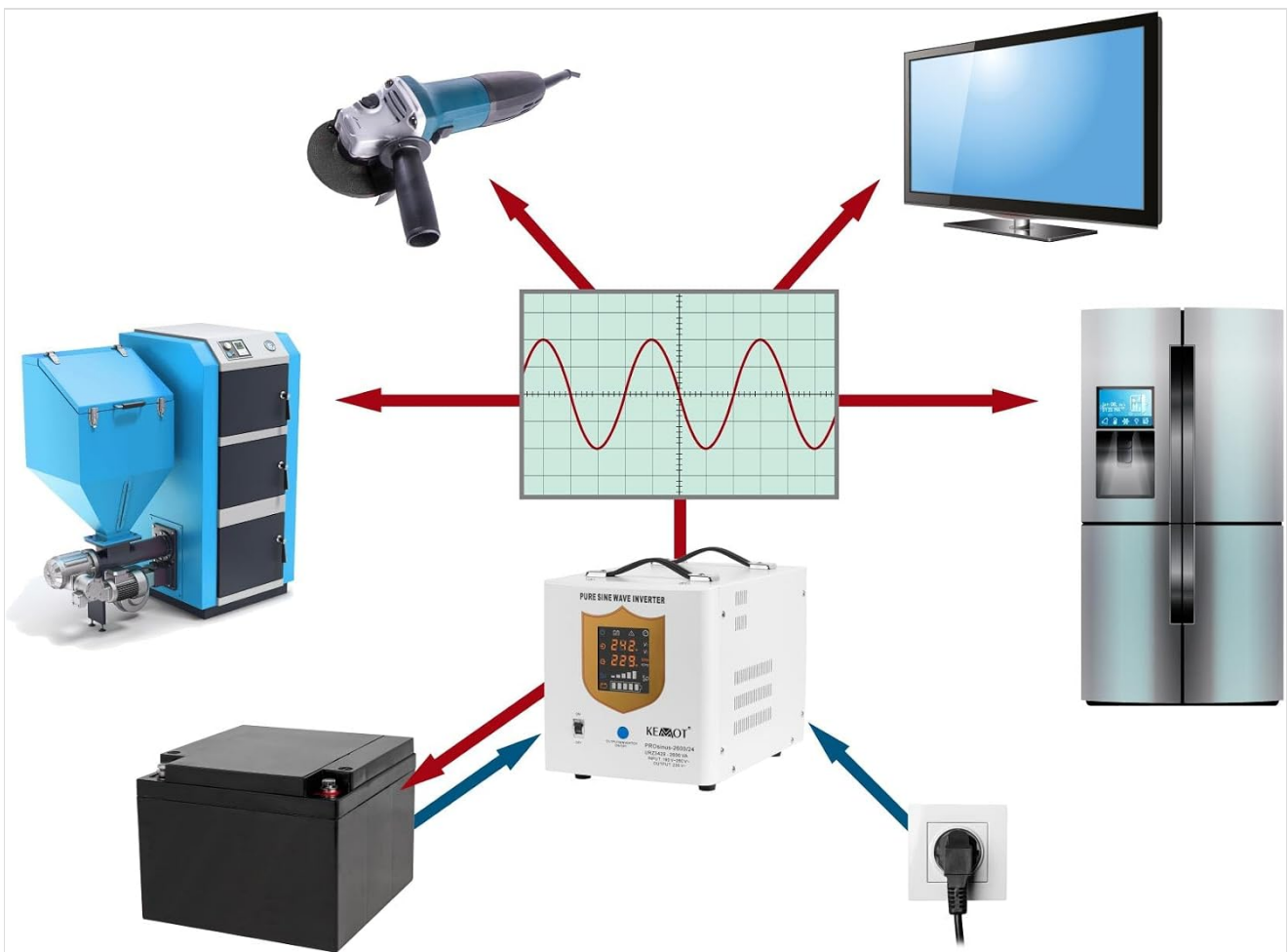


Figure 3: Illustrative diagram of the Kemot Prosinus-2600 connected to an external battery, AC mains, and various household appliances, demonstrating its role in a power system.

OPERATING MODES

The Kemot Prosinus-2600 offers three primary operating modes:

- **Emergency Power Supply Mode (UPS Function):**

In this mode, the unit acts as an Uninterruptible Power Supply (UPS). When connected to both AC mains and an external battery, it continuously monitors the incoming AC power. If the main power fails, the unit automatically switches to battery power, converting 24V DC from the battery to 230V AC to power connected devices. When AC mains power is restored, the unit switches back to mains power and begins recharging the external battery.

• **Charging Mode:**

When the unit is connected to AC mains and an external battery, it will automatically charge the battery. The charger current indicators (10A/15A) will show the charging status. This mode ensures your battery is always ready for a power outage.

• **Inverter Mode:**

If the unit is only connected to an external 24V battery (without AC mains input), it functions purely as an inverter. It converts the 24V DC power from the battery into 230V AC power to supply connected appliances. This mode is ideal for off-grid applications, camping, or vehicle use where mains power is unavailable.

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Kemot Prosinus-2600.

- **Cleaning:** Keep the unit clean and free from dust. Use a dry, soft cloth to wipe the exterior. Do not use liquid cleaners or solvents. Ensure ventilation openings are clear of obstructions.
- **Battery Inspection:** Periodically check battery terminals for corrosion. Clean any corrosion with a wire brush and baking soda solution. Ensure battery connections remain tight.
- **Battery Health:** For optimal battery life, avoid deep discharges. If the unit is stored for extended periods, ensure the battery is fully charged and recharge it every 3-6 months.
- **Storage:** If storing the unit, disconnect it from both AC mains and the battery. Store in a cool, dry place.

TROUBLESHOOTING

This section addresses common issues you might encounter with your Kemot Prosinus-2600.

Problem	Possible Cause	Solution
Unit does not turn on	No battery connected or battery discharged; ON/OFF switch is off; Faulty AC input.	Check battery connections and charge level; Ensure ON/OFF switch is in 'ON' position; Verify AC input power.
No output power	Overload; Short circuit; Battery low; Unit in fault mode.	Reduce connected load; Check for short circuits in connected devices; Recharge or replace battery; Reset unit by turning off and on.
Battery not charging	AC input not connected; Faulty battery; Internal fault.	Ensure AC input is connected and live; Test battery health; Contact support if issue persists.
Overload warning/shutdown	Total power of connected devices exceeds 1800W.	Disconnect some appliances to reduce the load. Restart the unit.

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

SPECIFICATIONS

Feature	Specification
Brand	Kemot
Model Name	Prosinus
Model Number	2600
Rated Power	1800 Watts
Peak Output Power	3000 Watts
Output Voltage	230 Volts AC
Input Voltage (Battery)	24 Volts DC
Input Voltage (AC)	230 Volts AC
Output Waveform	Pure Sine Wave
Weight	10.4 Kilograms
Color	White
Recommended Uses	Vehicle, Camping, Emergency
Power Source	Battery Powered

WARRANTY AND SUPPORT

Warranty Information:

The Kemot Prosinus-2600 Emergency Power Supply comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects and malfunctions under normal use. Please retain your proof of purchase for warranty claims.



Figure 4: Product packaging highlighting the 2-year warranty.

Information regarding the availability of spare parts is not provided. For any issues not covered by the troubleshooting guide, or for warranty service, please contact your retailer or the manufacturer directly.

Customer Support:

For technical assistance, service, or warranty inquiries, please refer to the contact information provided by your point of purchase or visit the official Kemot website for support resources.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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