

MICROTEK UPS EBZ 1100 VA

Microtek Super Power Pure Sinewave UPS 1100 (12V) SW User Manual

Model: UPS EBZ 1100 VA

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your MICROTEK Super Power Pure Sinewave UPS 1100 (12V) SW. This Uninterruptible Power Supply (UPS) is designed to provide reliable backup power for your home or office appliances during power outages, ensuring a stable and clean power supply with its pure sine wave output. Please read this manual thoroughly before installation and use, and retain it for future reference.

2. SAFETY INSTRUCTIONS

Observe the following safety precautions to prevent injury and damage to the UPS:

- Read all instructions before operating the unit.
- Ensure the UPS is properly grounded to prevent electrical shock.
- Do not expose the UPS to rain, moisture, or direct sunlight. It is designed for indoor use only.
- Avoid placing the UPS near heat sources or in areas with excessive dust or humidity.
- Ensure adequate ventilation around the UPS. Do not block ventilation openings.
- Do not open the UPS casing. There are no user-serviceable parts inside. Refer all servicing to qualified service personnel.
- Keep flammable materials away from the UPS.
- Connect the battery with correct polarity. Incorrect connection can damage the unit.

3. PACKAGE CONTENTS

Carefully unpack the box and ensure all items are present and undamaged. If any items are missing or damaged, contact your dealer immediately.

- 1 x MICROTEK Super Power Pure Sinewave Inverter (Model: UPS EBZ 1100 VA)
- User Manual (this document)
- Warranty Card

4. PRODUCT OVERVIEW

The MICROTEK Super Power Pure Sinewave UPS features a user-friendly design with clear indicators for operational status.



Figure 4.1: Front Panel of the UPS. This image displays the main unit with its front panel, including the "SUPER POWER" branding, MICROTEK logo, and a row of LED indicators for "MAINS ON", "UPS ON", "CHARGING", "OVERLOAD", "BATT. LOW", and "CB TRIP", along with the power button on the right side.



Figure 4.2: Key Technologies. This image highlights several technological features such as "Copper Wire Technology Redefined" for low watt loss, "Dura Retain Technology" for longer backup, "Intellicharge Pulse Technology" for faster charging and longer battery life, "Constant Continuous Regulated Charging" for electricity saving, "Resettable Circuit Breaker" for safety, and "Auto Reset" for overload conditions. A side view of the UPS is also visible.

4.1. Front Panel Indicators

- **MAINS ON:** Indicates that the UPS is receiving AC input power from the utility grid.
- **UPS ON:** Indicates that the UPS is providing power to the connected load from its battery (in inverter mode).
- **CHARGING:** Indicates that the battery is currently being charged.
- **OVERLOAD:** Warns that the connected load exceeds the UPS's capacity.
- **BATT. LOW:** Indicates that the battery charge level is low and requires recharging.
- **CB TRIP:** Indicates that the circuit breaker has tripped due to an overload or short circuit.

4.2. Digital Display

The digital LED display provides real-time information regarding the power back-up status and battery charging time in hours and minutes, allowing for better power management.

5. SETUP

Follow these steps for proper installation of your UPS:

1. **Unpacking and Inspection:** Remove the UPS from its packaging. Inspect the unit for any physical damage. Report any damage to your dealer immediately.

2. **Placement:**

- Place the UPS in a cool, dry, and well-ventilated area.
- Ensure there is sufficient space around the unit for proper airflow.
- Avoid direct sunlight, heat sources, and areas with excessive dust or corrosive gases.

3. **Battery Connection:**

The UPS requires a 12V battery with a capacity between 100 Ah and 200 Ah. It is compatible with Flat Plate, Tubular, and SMF batteries (battery sold separately).

- Connect the positive (+) terminal of the battery to the positive (+) terminal of the UPS.
- Connect the negative (-) terminal of the battery to the negative (-) terminal of the UPS.
- Ensure all connections are tight and secure to prevent sparking and ensure efficient power transfer.

4. **AC Input Connection:** Plug the UPS's AC input cord into a properly grounded wall outlet.

5. **Load Connection:** Connect your appliances (e.g., lights, fans, computers) to the output sockets of the UPS. Do not exceed the maximum load capacity of 760 watts.



Figure 5.1: Rear Panel Connections. This image shows the rear of the UPS, typically where the battery cables connect, the AC input power cord plugs in, and the output sockets for connecting appliances are located. Ensure correct polarity for battery connections.

6. OPERATING INSTRUCTIONS

1. **Turning On the UPS:** Press and hold the power button on the front panel for a few seconds until the UPS beeps and the indicators light up. The "MAINS ON" indicator will light if AC power is present.
2. **Normal Operation:** When AC power is available, the UPS will charge the battery and pass utility power to the connected loads. The "MAINS ON" and "CHARGING" indicators will be active.
3. **Power Outage (UPS Mode):** In case of a power failure, the UPS will automatically switch to battery power, and the "UPS ON" indicator will light. The digital display will show the remaining backup time.
4. **Turning Off the UPS:** Press and hold the power button until the UPS beeps and all indicators turn off. Disconnect the AC input and battery if the unit will not be used for an extended period.
5. **Overload Condition:** If the "OVERLOAD" indicator lights up and an alarm sounds, disconnect some non-essential loads immediately. If the circuit breaker trips ("CB TRIP"), reduce the load and reset the breaker.

6. **Low Battery Condition:** When the "BATT. LOW" indicator lights up and an alarm sounds, the UPS will soon shut down to protect the battery. Save your work and turn off appliances.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your UPS.

- **Battery Care:**
 - For tubular and flat plate batteries, regularly check the electrolyte level and top up with distilled water as needed.
 - Keep battery terminals clean and free from corrosion. Apply petroleum jelly if necessary.
 - Ensure the battery is fully charged before prolonged storage.
- **Cleaning:**
 - Clean the exterior of the UPS with a soft, dry cloth.
 - Ensure ventilation openings are free from dust and obstructions. Do not use liquid cleaners.
- **Storage:** If storing the UPS for an extended period, disconnect the battery and store it in a cool, dry place. Recharge the battery every 3-6 months to prevent deep discharge.

8. TROUBLESHOOTING

Refer to the table below for common issues and their solutions. If the problem persists, contact customer support.

Problem	Possible Cause	Solution
UPS does not turn on.	No AC input power; Battery not connected or discharged; Power button not pressed correctly.	Check AC input connection; Ensure battery is connected and charged; Press and hold power button for a few seconds.
No backup power during outage.	Battery discharged or faulty; UPS in bypass mode (if applicable); Overload.	Allow battery to charge; Check for overload and reduce connected appliances.
"OVERLOAD" indicator is on.	Connected load exceeds UPS capacity.	Disconnect non-essential appliances until the indicator turns off.
"BATT. LOW" indicator is on.	Battery charge is low.	Allow the UPS to charge the battery. Reduce load if necessary.
"CB TRIP" indicator is on.	Circuit breaker tripped due to overload or short circuit.	Reduce connected load. Reset the circuit breaker located on the rear panel (if applicable).

9. SPECIFICATIONS

Feature	Detail
Brand	MICROTEK
Model Name	UPS EBZ 1100 VA
Type	Pure Sine Wave Inverter
VA Rating	950VA/12V

Feature	Detail
Max. Peak Load / Output Power	760 Watts
Voltage	12 Volts
Input Voltage	100 Volts
Frequency	50 Hz
Electrical Output Waveform	Pure Sine Wave
Battery Compatibility	1 x (12V) battery, Capacity 100 Ah - 200 Ah (Flat Plate, Tubular, SMF)
Display	Digital LED display for status and charging time
Item Dimensions (L x W x H)	39.6L x 35.3W x 19.3H Centimeters
Item Weight	9.8 Kg (9340 Grams)
Colour	Grey
Power Source	Battery Powered
Recommended Uses	Office, Home Power Backup
UPC	605725670400
Country of Origin	India

10. WARRANTY

The MICROTEK Super Power Pure Sinewave UPS 1100 (12V) SW comes with a **2-year warranty** on the inverter unit from the date of purchase. Please refer to the warranty card supplied with the product for detailed terms and conditions, including coverage, exclusions, and claim procedures. Keep your purchase receipt as proof of purchase.

11. CUSTOMER SUPPORT

For technical assistance, service, or warranty claims, please contact the manufacturer:

Manufacturer: UNIVERSAL POWER PRODUCT

Address: PLOT NO. 20 & 20B, Sector-2, Parwanoo Distt : Solan HIMACHAL PRADESH 173220

Contact Number: +91 7283838383

Importer: Microtek International Pvt. Ltd.

You may also visit the official MICROTEK website for more information and support resources.

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.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question