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› MICROTEK i-MAXX-5.5KVA 192V Online UPS User Manual

MICROTEK i-MAXX-5.5KVA 192V (1PH IN-1PH Out)

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Model: i-MAXX-5.5KVA 192V (1PH IN-1PH Out)

1. INTRODUCTION

Thank you for choosing the MICROTEK i-MAXX-5.5KVA 192V Online UPS. This Uninterruptible Power Supply (UPS) is designed to provide reliable, clean, and stable power to your critical equipment. Featuring DSP technology with an IGBT-based inverter, this pure sinewave UPS ensures optimal performance and protection against power fluctuations. Please read this manual thoroughly before installation and operation to ensure safe and efficient use of your device.



Figure 1: Front view of the MICROTEK i-MAXX-5.5KVA 192V Online UPS. This image shows the main unit with its control panel and display.

2. SAFETY INSTRUCTIONS

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

- **Electrical Safety:** Ensure proper grounding. Do not open the UPS casing; there are no user-serviceable parts inside. Refer all servicing to qualified personnel.

- **Environment:** Install the UPS in a well-ventilated area, away from direct sunlight, heat sources, and moisture. Maintain adequate clearance around the unit for airflow.
- **Battery Handling:** Batteries contain hazardous materials. Do not dispose of batteries in a fire. Follow local regulations for battery disposal.
- **Overload Protection:** Do not overload the UPS beyond its rated capacity. This can cause damage to the unit and connected equipment.
- **Emergency Shutdown:** Familiarize yourself with the emergency shutdown procedure for the UPS and connected equipment.

3. SETUP

3.1 Unpacking

Carefully unpack the UPS and inspect it for any shipping damage. Report any damage to your dealer immediately. Retain the packaging materials for future transport or servicing.

3.2 Placement

Place the UPS on a stable, flat surface. Ensure the installation environment is clean, dry, and within the recommended temperature and humidity ranges. Avoid placing the UPS near flammable liquids or gases.

3.3 Electrical Connection

Connect the UPS input power cord to a properly grounded electrical outlet. Ensure the input voltage matches the UPS specifications. Connect your critical equipment to the UPS output receptacles. Do not connect surge suppressors or power strips to the UPS output, as this may interfere with its operation.

3.4 Battery Connection

This UPS requires external 192V Sealed Lead Acid batteries. Connect the battery bank to the designated battery terminals on the UPS, observing correct polarity (+ to + and - to -). Ensure all connections are secure before powering on the unit.

4. OPERATING INSTRUCTIONS

4.1 Powering On/Off

- **To Power On:** After connecting all cables, press and hold the power button on the front panel for a few seconds until the UPS powers on. The LCD display will illuminate.
- **To Power Off:** Press and hold the power button until the UPS shuts down. Ensure all connected loads are safely powered off before shutting down the UPS.

4.2 LCD Display

The Smart LCD Display provides real-time information about the UPS status, input/output voltage, battery level, load percentage, and various operational modes. Refer to the detailed display guide in the full manual for specific icon meanings and navigation.

4.3 Key Features

- **DSP Technology with IGBT Based Inverter:** Ensures high efficiency and reliable power output.

- **Inbuilt OVCD (Over Voltage Cut-Off Device) with Surge Protection:**Protects connected equipment from voltage spikes and surges.
- **EMI / RFI Noise Filter:**Minimizes electromagnetic and radio frequency interference for clean power.
- **CVCF (Constant Voltage Constant Frequency):** Provides stable output voltage and frequency regardless of input fluctuations.
- **Wide Input Voltage Range:** Allows the UPS to operate effectively in areas with unstable power grids.
- **Advanced Battery Management:** Optimizes battery life and performance.
- **Hot Stand-by, Cold Start & RS-232/USB Port:** Offers flexible operation and communication options.
- **Built-In Maintenance Bypass & Static Bypass Switch:** Allows for maintenance without interrupting power to critical loads.
- **Generator Compatible:** Designed to work seamlessly with generators (ensure generator capacity is 2.5 times the UPS capacity).
- **Configurable Output Voltage Settings:** Allows adjustment of output voltage to suit specific load requirements.

5. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your UPS:

- **Cleaning:** Keep the UPS free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **Ventilation:** Ensure ventilation openings are clear and unobstructed to prevent overheating.
- **Battery Check:** Periodically check battery connections for tightness and signs of corrosion. Consult a qualified technician for battery replacement.
- **Environmental Conditions:** Maintain the UPS in a stable environment, avoiding extreme temperatures and humidity.
- **Load Management:** Avoid consistently operating the UPS at its maximum load capacity to prolong its lifespan.

6. TROUBLESHOOTING

This section provides solutions to common issues. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
UPS does not turn on	No input power; Battery not connected or discharged	Check power cord connection; Ensure battery is connected and charged.
UPS beeps continuously	Overload; Low battery; Fault condition	Reduce connected load; Allow battery to charge; Consult manual for fault codes.
Connected equipment loses power	UPS in bypass mode; UPS shut down due to fault	Check UPS status on LCD; Troubleshoot fault condition.
LCD display is blank	UPS is off; Display fault	Turn on UPS; If UPS is on and display is blank, contact support.

7. SPECIFICATIONS

Detailed technical specifications for the MICROTEK i-MAXX-5.5KVA 192V Online UPS:

Feature	Specification
Brand	MICROTEK
Model Number	i-MAXX-5.5KVA 192V (1PH IN-1PH Out)
Battery Cell Composition	Sealed Lead Acid
Voltage	192 Volts
Amperage	15 A
Battery Charge Time	12 Hours
Form Factor	Rack
Maximum Power	5.5 Kilowatts
Output Voltage	192 Volts
Connector Type	RS-232, USB
Number of Outlets	8
Output Wattage	500 Watts
Wattage	4400 Watts
Frequency Range	40Hz-55Hz
Item Weight	62000 Grams
Item Dimensions (L x W x H)	56.2 x 25 x 83 Centimeters
Item Type Name	Pure Sinewave

8. WARRANTY AND SUPPORT

MICROTEK products are manufactured under strict quality control standards. This product comes with a standard manufacturer's warranty. Please refer to the warranty card included with your purchase for specific terms and conditions, including warranty period and coverage details.

For technical assistance, troubleshooting, or warranty claims, please contact MICROTEK customer support. Have your product model number and purchase details ready when contacting support.

Customer Support: Refer to the contact information provided in your product packaging or visit the official MICROTEK website for the latest support details.

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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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