

IGBT BASED INTELLI PURE SINEWAVE UPS JUMBO High Capacity Series models are designed using latest state-of-the-art Technology for HI-end Applications, which require High Starting Current.

SALIENT FEATURES

- Micro Processor based PWM Technology using Hi-Grade IGBTs.
- LCD Display.
- Pure Sine Wave Output.
- Best Suited for most High Capacity Sophisticated Applications.
- Advanced Battery Management (ABM) for Longer Battery Life and Quick Charging.
- Inbuilt Time Delay Relay (TDR).
- Generator Compatible.

TECHNICAL SPECIFICATIONS

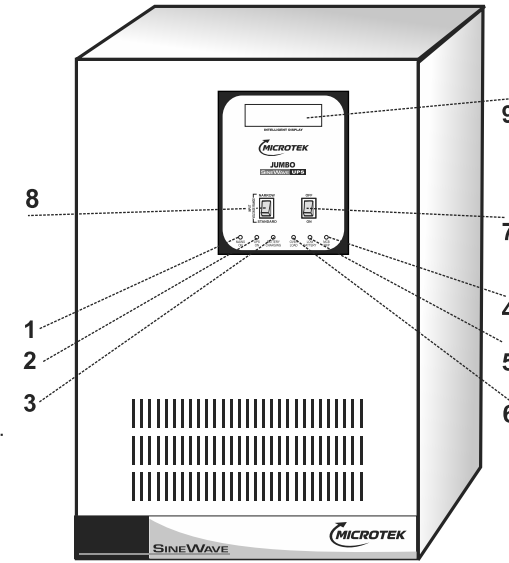
Input voltage (Wide Input Range)	120V~275V
(Normal Input range)	180V~260V
Output Voltage on mains mode	Same as input
Output Voltage on UPS mode	220V ± 10%
Output frequency on UPS mode	50 Hz ± 0.2 Hz
Switching from mains to UPS and from UPS to mains	Automatic
Output waveform on mains mode	Same as Input
Output waveform on UPS mode	PURE SINEWAVE
Battery charging current	10% of the rated Battery AH
Battery Charger	Boost based PWM control multi stage IBM technology
Efficiency	> 80%
Input Brown Out Voltage	100V±10V
UPS Overload Protection	110% of the rated Capacity
UPS Short Circuit Protection	300% of the rated Capacity
Technology	Microcomputer Based Smart Control Design
Auto Reset Feature	Yes
Operating Temperature	0~45°C
Mains Bypass	Rotary Bypass Switch

NOTE: *Power Factor may vary depending upon the Load.
* Because of a policy of continuous product improvement, specifications are subject to change without notice.

FRONT PANEL BACK PANEL

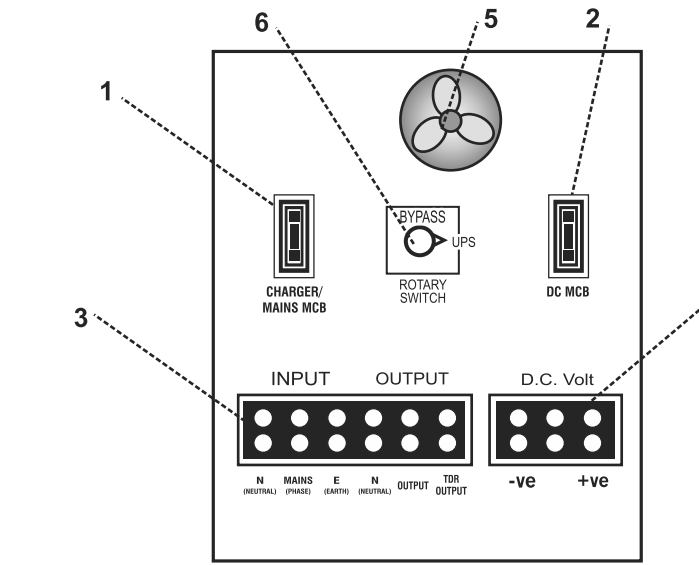
I. LED Indications

1. Mains ON.
 2. UPS ON.
 3. Battery Charging. [LED Blinks when Battery is Charging.]
 4. MCB Trip.
 5. Battery Low.
 6. Overload.
- II. Switch**
7. Power On/Off & Reset.
 8. Input Voltage Range: Narrow / Standard



III. LCD Display Indications

1	Welcome Message	"MICROTEK" WELCOMES YOU Initialising... System Settings
2	UPS ON	UPS ON O/P= ...V Battery = ...V O/P Freq. = ...Hz Load = ...%
3	Mains ON	AC Input = ...V Battery charging Input Freq. = ...Hz Battery = ...V
4	Overload Indication	*OVERLOAD = 110% PLS REDUCE LOAD
5	Overload Shutdown	UPS OFF Overload
6	Low Battery Indication	*LOW BATTERY = ...V PLS REDUCE LOAD
7	Low Battery Shutdown	UPS OFF Low Battery



1. MCB for Input.
2. DC MCB.
3. AC INPUT/OUTPUT Terminal Block
MAINS - Input Line
E - Earth
OUTPUT - Output Line for Normal Load
OUTPUT - TDR Output
N - Input/Output Neutral
4. Battery Terminal Block
5. Cooling Fan
6. Rotary Switch (1: Mains Bypass 2: UPS).

IMPORTANT: While installing the UPS, Keep minimum distance of 1feet from the wall, so that air can circulate freely.

TROUBLE SHOOTING

Problem	Possible Cause / Action Suggested
1. Main Supply is Normal but:- a) UPS is working on battery (Mains ON LED OFF and UPS ON LED ON.) b) Mains ON, UPS ON and Battery Charging all LED Glow with flicker. 3) No Output / MCB Trip LED ON.	a) Dead wall socket. Line AC input connections are loose / not proper. b) AC input line & neutral connections are reverse. b) Check MCB at rear, if OFF, Turn it ON. If MCB trips again call electrician to check shorting / Overload in the load wiring. d) Check Rotary Switch, For position of switch it should be at 'UPS' position.
2. UPS trips frequently at UPS mode.	The load is more. Reduce the load and reset the UPS. (UPS switch 'OFF' and 'ON' again)
3. UPS Mode but no power:- a) Overload LED ON. b) Low Battery LED ON.	a) Reduce the load and reset the reset switch on the front panel ON-OFF-OFF-ON. b) Battery has discharged. Recharge the battery after the mains restoration. c) Check Rotary Switch position "UPS".
4. Backup Time is Less.	a) Check battery water and charge the battery with mains minimum for 8-12 hours. If still less backup, get the battery checked up from authorised service personnel.
5. UPS does not operate.	a) Check the battery and the mains connections. b) Internal problem. Call authorised service personnel.

SERVICING / WARRANTY

Microtek International P. Ltd., warrants each instrument to be free from defects in materials and workmanship for a period of Two years after initial delivery. This obligation is limited to servicing any instrument or part returned to the authorised service center for that purpose and to making good any parts thereof which shall, within the warranty period, be returned to the company or authorised Service center under a written intimation and which to the company's satisfaction be found defective. The company reserves the right to decide as to whether the repair work should be carried out in the company's service center or at site or at any other place.

The freight incurred for to and fro dispatch will have to be borne by the customer and the transit risk for the material will rest with the customer.

The warranty will be invalidated if defects arising in company's opinion are by reasons of accident, abuse, misuse, neglect, Improper Installation (If not undertaken by the company or its representative), fire, flood, any other act of God and any other natural calamities. Further, this warranty does not extend to any instrument which has been repaired / tampered with by any agency/person not authorized by the company. The services given for the same will be paid service.

The warranty will last for a period of 24 months from the date of initial delivery/dispatch of the instrument if used within its specifications. The warranty for the replaced components will lapse along with that of the main instrument.

MICROTEK International P. Ltd., reserves the right to make changes in design and specifications without notice and without any obligation to install such changes on units previously supplied.

In no event will MICROTEK International P. Ltd., its distributors / dealers be liable for any loss or injury or damage caused to life or property or death & disability caused to any form of life for any reasons whatsoever. The company, its distributors / dealers will also not be liable for consequential damages or for any expenses incurred by the buyer or user, due to use or sale of products sold by MICROTEK International P. Ltd., directly or through its authorised Distributors / dealers or any third party.

IMPORTANT

1. Ensure all Switch and MCB are in OFF position.
2. For extra Safety also remove the fuses from the lines. Make absolutely sure with measurement that there is no power. A readily available disconnect device must be incorporated in all fixed input wiring. The disconnect device shall have a contact separation of at least 3mm. The UPS has automatic backfeed isolation but for extra safety a warning label can be added on the primary power isolators installed remote from the UPS area to warn electrical maintenance personnel. Also check fuse or circuit breaker ratings and cable dimensions.
3. Properly Connect Input, Output and Batteries Bank with the UPS. The grounded socket must be near the product for connection.
4. Check the building wiring. Improper wiring will not prevent the UPS from operating but will limit its protection capability. Improper building wiring could result in equipment damage that is not covered in warranty.
5. Connect Battery Wire First to the UPS and Only after that to the Battery Bank.
6. Connect Normal Load Input to the Mains of the Terminal Block.
7. Connect TDR Load to the TDR Output of the Terminal Block and Normal Load to the Output of the Terminal Block.
8. Switch ON DC MCB followed by MAINS MCB, then Switch ON the Front Panel Power On Switch of the UPS.
9. Backfeed - See warning label on the UPS.
10. The instrument must be securely packed, preferably in its original packing. Also ensure that nothing inside packing is damaged. Please transport the product in its original packing to protect against shock, damage & impact.

GOING ON VACATIONS

1. Must put the UPS ON/OFF Switch in OFF Position.

DO'S & DON'TS RELATED TO UPS

Do's Related to UPS

- ✓ Unplug and Switch OFF the UPS before touching or cleaning the surface.
- ✓ Unplug the UPS from the wall outlet during a Lightening Storm.

Don'ts Related to UPS

- ✗ Don't block the bottom ventilation slots by cloth or other material it may result in fire hazard.
- ✗ Don't place the UPS near radiation or heat source.
- ✗ Don't Install near Kitchen Sink, Laundry, Wash Bowl, Bath Tub or Swimming Pool.

POST WARRANTY ANNUAL MAINTENANCE CONTRACT (AMC)

Microtek Offers Annual Maintenance Contract to save you from any inconvenience in case of a product failure post warranty. Various options are available in select cities for all models of Microtek Products:-

For Details, Contact nearest Microtek Branch or e-mail at: ho@microtek.in

INSTRUMENT DESCRIPTION

MICROTEK SINEWAVE JUMBO HIGH CAPACITY UPS

UPS JM SW 6500i/96V UPS JM SW 9000i/120V

UPS JM SW 11000i/180V

BATTERY:

08 10 12 15 16

SERIAL NO.

Authorised Dealer Stamp with Signatures

In case of any Service requirement kindly contact Microtek Customer Care, specifying following details:

(i) Model Number & Serial Number of the Product.
(ii) Name & phone no. of the contact person with full address & e-mail ID if any.
(iii) Reported problem/description of the complaint.

Note: (a) Refer all servicing queries to Microtek Customer Care only.
(b) Please take care that Serial Number is kept intact and that the product is not allowed to be fiddled (opened) by any unauthorised person; otherwise the warranty will be void.

MICROTEK CUSTOMER CARE:
ALL INDIA: 7283838383
WHATSAPP: 08800255733 E-mail: cc@microtek.in

*All disputes subject to Delhi jurisdiction only.

MICROTEK INTERNATIONAL P. LTD.
H-57, Udyog Nagar, Rohtak Road, New Delhi-110041.

Vend. C:
Form No.: QPN/003-207
Issue No.: 06, 25/04/2024 (PART CODE: 902-423-1102) 002-242-JUMBO HI-CAP V.4



JUMBO UPS
HIGH CAPACITY SERIES

UPS JM SW
6500i/96V | 9000i/120V | 11000i/180V

USER MANUAL



www.microtek.in