

PM11-HF10RTE-200G - 10KVA On-Line Double Conversion Long Run Time UPS

The PowerMan PM11-HF UPS range is manufactured using a double conversion design principal, and operates using a 220/240V 50Hz, single phase AC input and output. The use of state of the art high frequency, transformer-less technology keeps the UPS small and compact. The incoming mains is converted directly into DC which is used to charge the batteries and to drive the inverter, which in turn runs the load. **This means that your sensitive electronic equipment will be protected from any potentially damaging spikes, surges or dips.** Should the mains fail completely, the batteries will simply carry on driving the inverter, and start to discharge as opposed to charging. There is no break on the output on transfer to or from the mains. This design concept offers the best possible protection as your equipment is supplied clean power from the inverter at all times.

The UPS has a built in Static By-Pass feature which enables the machine to transfer the load to normal mains under certain emergency conditions, such as an overload. Once the condition causing the by-pass has been corrected the unit will automatically return to its normal operating mode.



Features	Benefits
On-Line, double conversion technology	Computer equipment is protected from typical commercial power problems such as spikes, surges, dips or failures due to the isolation of the input from the output. A double conversion is the only type of UPS that will be able to recreate a clean, steady voltage and frequency output.
Transformer-less	This technology has been tried and tested over the years and has proven itself to be reliable. The use of high frequency technology dramatically reduces the size of the equipment and improves efficiency which reduces the running cost.
Unity power factor and high efficiency rate	VA Rating = Watt Rating essentially delivering 10% to 30% more power than UPS's with a power factor rating of 0.9 or 0.7. The unit runs at 95% efficiency reducing the day to day running cost.
3-Step inverter design	The unique 3-step inverter design ensures that the UPS can run all loads including laser printers.
Generator compatible input	The output power from the generator can vary as different loads come on and go off, the UPS will ensure that your equipment is not be damaged by the voltage fluctuations from the generator.
DC start capability	Units are able to start and run with no mains input. Essentially the units can be run as a straight forward inverter if necessary.
Sealed Deep Cycle Gel Battery technology	The Deep Cycle Gel battery is specifically designed for use with UPS and inverter applications, the units are designed for multiple discharges (deep cycle) and have a design life of 12 years or 600 cycles when discharged by 80%. These batteries are leak-proof and are designed for long discharges, they do not gas while charging making them an ideal choice for office or home environments.
Communication ports (USB Standard, SNMP optional)	Allows the UPS to connect to the computer system or network, and in conjunction with various software packages, can supply information on the status of the UPS and perform shut down.
LCD Display	Gives users accurate information on the input and output voltages on the UPS, frequency as well as load levels and available battery capacity.

Specifications

Model No.	PM11-HF10RTE-200G
Capacity VA (Watts)	10 000 (10 000)
Input Voltage	230V AC \pm 25%
Input Frequency	50 Hz \pm 10%
Transfer Time	Zero
Output Voltage On Inverter	230V AC \pm 3%
Frequency on Inverter	50 Hz Crystal Controlled
Inverter Wave Form	Sine
Total Harmonic Distortion (THD)	\leq 1% (Linear Load)
Efficiency At Full Load	> 95%
Overload Capability	150% For 30 seconds, then by-pass
Batteries	External battery pack, 32 x 12V 100Ah Sealed Lead Acid (Gel)
Re-Charge to 90 %	\pm 8 Hours
Backup Time With 50% Load (5000 watts)	\pm 6 Hours
Backup Time With 75% Load (7500 Watts)	\pm 2.5 Hours
Ambient Operation	3000M Max Elevation, -10 to 40 C, 0 to 90% Humidity
Audible Noise At 1 M	< 60% Load 52 dbA / > 60% Load 56 dbA
Short Circuit Protection	Yes
Low Battery Shutdown	Yes
Controls	Mains Fail Alarm (Slow intermittent beep), Low Battery Alarm (Continuous beep), Mains on indicator, Charging indicator, By-Pass Indicator, LCD Display (Full UPS Status reporting), Diagnostic software via USB port (SNMP and dry contact optional)
UPS Dimensions (w x d x h) mm & Weight	438mm x 600mm x 172mm @ 18Kg
Battery Dimensions (w x d x h) mm & Weight	2 x (470mm x 780mm x 1190mm @ 550Kg)



Combotrade Thirteen (Pty) Ltd T/A PowerMan
 Reg No. 97/02468/07
 P.O. Box 815, Honeydew, 2040.
 67 Vlootboot Street (Corner Braam Road)
 Laser Park, Honeydew

Tel No: + 27 11 794 3886
Fax No: + 27 11 794 7435
Email : sales@powerman.co.za
Web Site: www.powerman.co.za

