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PM11-HF06RTS / PM11-HF10RTS
6KVA / 10KVA On-Line Double Conversion 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.

Each UPS is supplied with a software package that will connect to a USB Port on your computer so that the UPS parameters can be monitored by the user, and in the event of the computers being left unattended a safe shut down will be executed by the software. An SNMP network version is available at an extra charge.

Features

1. On-Line Technology - The on-line UPS is the best protection available for sensitive electronic equipment. 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.

2. Double Conversion Design - 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. A double conversion is the only type of UPS that will be able to recreate a steady frequency output.

3. No Transfer Time - There is no break on the output when the mains fails as the inverter is permanently supplying the load.

4. Unity Power Factor – The PowerMan offers best in class performance, operating at unity power factor, on average our units are 20% more powerful than opposition products of the same rating.

5. Generator Compatible Input - The on-line UPS is generator compatible. The unit will work with most types of generators providing the frequency regulation is within 5Hz. The output power from the generator can vary as different loads come on and go off, the UPS will ensure that your equipment is supplied with a clean 220V at all times and will not be damaged by the voltage fluctuations from the generator. Some generators have a poor output wave form, the UPS will correct that to a pure sine wave.

6. DC Start Capability - Units are able to start and run with no mains input. Essentially the units can be run as a straightforward inverter if necessary.

7. Unlimited Run Time - Due to the versatility of the design of the UPS's the battery run time can be adapted to suit any requirements. Cost implications suggest that it would be impractical to extend the available time by more than 8 hours.

8. Communication Port - All units are fitted with a USB communication port. This can be connected to the USB port of a computer, and in conjunction with various software packages can supply information on the status of the UPS.

9.The LCD Display - The 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-HF06RTE**	**PM11-HF10RTE**
Capacity VA (Watts)	6 000 (6 000)	10 000 (10 000)
Input Voltage	230V AC ± 25%	
Input Frequency	50 Hz ± 10%	
Transfer Time	Zero	
Output Voltage On Inverter	230V AC ± 3%	
Frequency on Inverter	50 Hz Crystal Controlled	
Inverter Wave Form	Sine	
Total Harmonic Distortion (THD)	≤ 1% (Linear Load)	
Efficiency At Full Load	> 95%	
Overload Capability	150% For 30 seconds, then by-pass	
Batteries	Internal battery pack, 16 x 12V 7Ah Sealed Lead Acid	Internal battery pack, 16 x 12V 9Ah Sealed Lead Acid
Re-Charge to 90 %	± 8 Hours	
Backup Time With 50% Load (50% Load)	10 Minutes	8 Minutes
Backup Time With 75% Load (75% Load)	6 Minutes	4 Minutes
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 Shut down	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	190mm x 426mm x 705mm @ 56Kg	190mm x 485mm x 705mm @ 60Kg