



Combtrade Thirteen (Pty) Ltd T/A PowerMan Reg No. 97/02468/07

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The On-Line Double Conversion UPS Range

The PowerMan double conversion design takes the incoming mains and converts it directly into DC. This DC power is used to charge the batteries and to drive the inverter, which in turn runs the load. Should the mains fail the batteries will simply carry on driving the inverter, and start to discharge as opposed to charging. The units have a built in Static By-Pass feature which enables the machine to transfer the load to normal mains under certain conditions. There is no break on the output on transfer to or from the mains.

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.

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

4. Generator Compatible Input : The on-line UPS is generator compatible.

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 communication port. This can be connected to the comm. port of a computer, and in conjunction with various software packages can supply information on the status of the UPS. (See software section).

9. The Load Level Indicator gives users an indication of the percentage of resistive load being run from the UPS. From this information overloading can be avoided as well as enabling the user to calculate a fairly accurate run time during a power outage.

10. The battery Level Indicator will give the user a percentage capacity in the battery both during discharge and recharge.

Specifications

Model No.	PM901	PM903	PM906	PM9010
Capacity VA (Watts)	1 000 (700)	3 000 (2 100)	6 000 (4 200)	10 000 (7 000)
Input Voltage	230 V AC \pm 25 %			
Input Frequency	50 Hz \pm 10 %			
Transfer Time	Zero			
Output Voltage On Inverter	230 V AC \pm 3 %			
Frequency on Inverter	50 Hz Crystal Controlled			
Inverter Wave Form	Sine			
Total Harmonic Distortion (THD)	< 3 %			
Efficiency At Full Load	Approximately 85 %			
Overload Capability	150 % for 1 minute, then by-pass			
Batteries	Sealed lead acid - 3 to 5 year life			
Re-Charge to 90 %	8 Hours			
Backup Time With Computer Load	15 min	20 min	25 min	15 min
Backup Time With Resistive Load	6 min	8 min	10 min	6 min
Ambient Operation	3000 M Max Elevation, -10 To 40 C, 0 To 90 % Humidity			
Audible Noise At 1 M	< 50 dBA			
Mains Fail Alarm	Slow beep (\pm 0.5 Hz)			
Low Battery Alarm	Continuous beep			
Mains On Indicator	Yes			
Charging Indicator	Yes			
By-Pass Indicator	Yes			
LCD Display	Yes			
Diagnostic Software	Yes			
SNMP Card Optional	Yes			
Short Circuit Protection	Yes			
Low Battery Shutdown	Yes			
Dimensions (w x d x h) mm	145 x 415 x 215	190 x 470 x 330	260 x 560 x 730	260 x 560 x 730
Weight	12.5 Kg	13,5 Kg	41 Kg	87 Kg



10KVA on-line UPS with internal battery pack



3KVA on-line UPS with internal battery pack