

PowerWAVE 1000 (1-10 kVA)



PowerWAVE 1000

Model	1 kVA	2 kVA	3 kVA
Input			
Voltage window	120/140/160-288 (33%, 66%, 100% load)		
Frequency	50/60Hz ±5Hz (auto sensing)		
Phase	Single phase		
Power factor	>0.99 (full load)		
Output			
Voltage (vac)	200/208/220/230/240		
Voltage regulation	< +/-1% until low battery warning		
Capacity	1000VA / 700W	2000VA / 1400W	3000VA / 2100W
Power factor	0.7 Lagging		
Wave form	Sine wave, THD<3% (no load to full load)		
Frequency stability	+/-0.1% unless synchronized to line		
Frequency regulation	±3Hz or 1Hz (setting by software) when synchronised to line		
Transfer time inverter to bypass	2.5 ms	0 ms	
Crest factor	3:1		
Efficiency (AC to AC) full load	85%		88%
Autonomy (built-in battery)	>7 min		>5 min
DC start	Yes		
Battery			
Type	Sealed lead acid maintenance free		
Capacity	7Ah		9Ah
Quantity (pcs)	3	6	
Built-in charger (max charging current)	1.8A	2.1A	2.7A
Display			
LED	Normal, battery, bypass, programmable outlet 1, programmable outlet 2, self-test, battery weak & bad, site wiring fault, fault, overload, and load/battery level conditions		
Key	On button / off button (test/alarm silence button)		
Self-diagnostics	Upon power on and software control		
Protection			
Overload AC mode & backup mode (delay before switching to bypass)	<105% continuously. >106%-120% for 30 seconds transfer to bypass. >121%-150% for 10 seconds transfer to bypass. >150% immediately transfer to bypass. Buzzer continuously alarms		
Epo	UPS shuts down immediately		
Battery	Advanced battery discharge management (ABDM)		
Alarms			
Audible & visual	Line failure, battery low, overload, system fault conditions		
Physical			
Dimensions WxHxD (mm)	440x88x405	440x88x650	
IEC/local 230Vac	6 x IEC320-C13 10A		4 x IEC320-C13 10A & 1 x IEC320-C19 16A
Net Weight (Kg)	15.1	28.2	29.8
Environment			
Operating temperature	0°C – 40°C		
Altitude	0-2000m up to 40°C / 3000m up to 35°C		
Humidity	90% RH maximum, non-condensing		
Environment – heat dissipation (approx)	150W	275W	415W
Noise	< 50dB (at 1 meter)		
Computer interface			
Interface type	Standard RS232 and USB interfaces		
Communication slots	Relay contact board, SNMP card		
Compatible platforms	Windows 95/98/NT/2000/XP/Vista, Novell NetWare, Linux		
Safety conformance			
Quality assurance	ISO9001 Certified Company		
Safety standard	EN62040-1-1, IEC60950-1		
Performance	EN62040-3 complied		
EMC standard	EN62040-2, EN61000-3-2, EN61000-3-3, FCC class A		
Marks	CE, UL, cUL, FCC		

PowerWAVE 1000

Model	4.5 kVA	6 kVA	8 kVA	10 kVA
Input				
Voltage	160 – 280Vac – line to neutral			
Frequency	45-65 Hz			
Phase	Single phase			Single or three phase
Power factor	Up to 0.99 @ 100% linear load			
Current THDi	<6% @ 100% linear load single phase/<30% 3 phase			
Output				
Voltage	200/208/220/230/240 vac selectable			
Voltage regulation	+/-2%			
Capacity	4500VA/4050W	6000VA/5400W	8000VA/7200W	10000VA/9000W
Rated power factor	0.9 lagging			
Wave form	Sine Wave, THD <3% (no load to full linear load)			
Frequency stability	+/-0.2% on inverter free-running mode			
Frequency regulation	+/-1Hz, +/-3Hz (programmable by user) when synchronised to line			
Transfer time inverter to bypass	0 ms			
Crest factor	3:1			
Efficiency (AC to AC, normal)	Up to 91%			
Efficiency (AC to AC, ECO)	Up to 92%			Up to 93%
DC start	Yes			
Battery				
Type	Sealed lead acid maintenance free			
Capacity	12V/9AH		12V/9AH	
Quantity	20 pcs			
Display				
Status on LED + LCD	Line mode, backup mode, ECO mode, bypass supply, battery low, battery bad/disconnect, overload, transferring with Interruption, and UPS fault			
Readings on LCD	Input voltage, input frequency, output voltage, output frequency, load percentage, battery voltage, and inner temperature			
Self-diagnostics	Upon power-on and front panel setting			
Alarms				
Audible and visual	Line failure, battery low, transfer to bypass, system fault condition			
Protection				
Overload	Inverter supply: sliding scale: 105% 160sec, 150% 40ms, >150% switch to bypass			
Physical				
Dimensions WxHxD (mm)	445x222x680		445x267x680	
Input/output connection	Hardwire			
External battery connection	Plug-in & play			
Net Weight (Kg)	24.0		26.0	
Environment				
Operating temperature	0°C to 40°C			
Altitude	0-2000m up to 40°C / 3000m up to 35°C			
Humidity	90% RH maximum, non-condensing			
Environment – heat dissipation (approx)	450w	500w	600w	700w
Noise	<50dB (at 1m)			
Computer interface				
Interface Type	Standard RS232/EPO interface			
Communication Slots	2nd RS232, USB, RS485, relay contact (DCE-B), SNMP/WEB card			
Safety conformance				
Quality assurance	ISO9001 Certified Company			
Safety standard	EN62040-1-1, UL1778			
EMC standard	IEC/EN 62040-2 class A, IEC/EN 61000-4-2/-3/-4/-5/-6/-8, IEC/EN61000-2-2, IEC/EN 61000-3-2/-3			
Marks	CE, cUL, UL single phase, CE three phase			
Battery bank				
Model	Battery type	Maximum quantity	With batteries (Kg)	Dimension W x H x D (mm)
PWBAT – 9 – 20	9AH	20 pcs	82	445x133x69



**Uninterruptible Power
Supplies Ltd,**
Woodgate,
Bartley Wood Business Park,
Hook, Hampshire RG27 9XA

Tel: 01256 386700

Fax: 01256 386701

Email: sales@upspower.co.uk
