



PW11 SERIES

1 PHASE INPUT - 1 PHASE OUTPUT

1kVA - 10kVA ONLINE UPS

- DSP-controlled Online UPS
- True sine wave output, Online UPS
- 176VAC-276 VAC wide input voltage
- Double loop (double conversion)
- N+ 1 redundant parallel function (6-10 KVA)
- CPU Control to maximum security
- PFC function (Power Factor Correction)
- Static Bypass feature
- Cold Start (from battery operation features)
- Communication via RS-232 port.
- Input power factor correction
- The overload and short-circuit-protected
- Automatic self-test feature
- High-efficiency, energy-saving
- SNMP support optional
- Changing fan speed according to the load (the smart fan)
- Additional battery Connect feature (optional)
- Input / Output / Load / Battery / Frequency showing the status of
- Large, clear LCD display and the LED display
- Advanced battery management (ABM)
- Compact, light weight, quiet structure EMI/RFI
- Free UPS management software (Turn Off and re-start-up)
- CE certified
- ISO 9001 certified



• Product images may vary according to power values

USAGE AREAS

- HOME SYSTEMS
- OFFICES SYSTEMS
- IT SYSTEMS
- ULTRASON DEVICES
- SECURITY SYSTEMS
- MEDICAL DEVICES
- EPILATION DEVICES
- NETWORK SYSTEMS
- DIGITAL PRINTING
- X-RAY SYSTEMS



• Product images may vary according to power values



PW11 SERIES

1 PHASE INPUT - 1 PHASE OUTPUT

1kVA - 2kVA - 3kVA ONLINE UPS

Power kVA	1			2			3		
Power kW	0,9			1,8			2,7		
INPUT									
Rated Voltage	208 / 220 / 230 / 240 Vac								
Voltage Range	110 ~ 176 Vac (linear derating between 50% and 100% load) 176 ~ 280 Vac (no derating) 280 ~ 300 Vac (derating 50%)								
Frequency	40 ~ 70 Hz (auto-sensing)								
Power factor	≥ 0.99								
Bypass voltage range	- 25% ~ +15% (settable)								
Total harmonic distortion (THDi)	≤ 6%								
OUTPUT									
Voltage	208 / 220 / 230 / 240 Vac (settable via LCD)								
Voltage Regulation	± 1%								
Frequency	45 ~ 55 Hz or 55 ~ 65 Hz (synchronized range); 50 / 60 Hz ± 0.1 Hz (battery mode)								
Waveform	Sinusoidal								
Power factor	0.9								
Total harmonic distortion (THDv)	≤ 2% (linear load), ≤ 5% (non-linear load)								
Crest factor	3:1								
Overload	105% ~ 125% for 1 min, 125% ~ 150% for 30 s, > 150% for 300 ms								
BATTERY									
DC Voltage	24 V (S)	36 V (S)	36 V (L)	48 V (S)	72 V (S)	72 V (L)	72 V (S)	96 V (S)	96 V (L)
Internal Battery	2 x 9 Ah	3 x 7 Ah	/	4 x 9 Ah	6 x 7 Ah	/	6 x 9 Ah	8 x 7 Ah	/
Charging Current (Max.)	1 A		6 A	1 A		6 A	1 A		6 A
Recharge Time	Standard model: 90% capacity restored in 3 hours; Long time model: depend on the capacity of battery								
SYSTEM									
Yield	≥ 90% (Mains mode)			≥ 91% (Mains mode)			≥ 92% (Mains mode)		
	≥ 85% (Battery mode)			≥ 86% (Battery mode)			≥ 87% (Battery mode)		
	≥ 95% (ECO mode)			≥ 96% (ECO mode)			≥ 97% (ECO mode)		
Transfer time	Mains mode to battery mode: 0 ms Inverter mode to bypass mode: 4 ms (typical)								
Protections	Short-circuit, overload, overtemperature, battery discharge protection and fan testing protection								
Communications	RS232 (standard), USB / RS485 / dry contacts / SNMP (optional)								
Image	LCD + LED								
Standards	EN 62040-1, EN 62040-2, EN 61000-3-2, EN 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2, IEC 62040-2, IEC 62040-1, IEC 62040-3								
OTHER									
Operating Temperature	0°C ~ 40°C								
Storage Temperature	-25°C ~ 55°C (without batteries)								
Relative Humidity	0 ~ 95% (non-condensing)								
Altitude	≤ 1000 m, derating 1% for each additional 100 m								
IP Rating	IP 20								
Noise Level (at 1m)	≤ 50 Db								
Dimension (W x D x H) (mm)	144 x 312 x 216	144 x 317 x 216	144 x 336 x 216	144 x 417 x 216	191 x 419 x 335	191 x 418 x 335	191 x 419 x 335	191 x 419 x 335	191 x 418 x 335
Net Weight(kg)	11	12.8	6	16.4	23.1	10.5	24.3	29.4	11
Gross Weight (kg)	11.3	14	7	17.8	24.7	12	25.9	31.1	12.5
Packaged Dimensions (W×D×H) (mm)	30 x 402 x 315	230 x 460 x 315	232 x 417 x 318	230 x 506 x 315	277 x 500 x 435	318 x 533 x 471	277 x 500 x 435		277 x 500 x 435



PW11 SERIES

1 PHASE INPUT - 1 PHASE OUTPUT

6kVA - 10kVA ONLINE UPS

Power kVA	6	10
Power KW	6	10
INPUT		
Input Wiring	Single-phasethree-wire (1Φ + N + PE)	
Rated Retardation	208/ 220 / 230 / 240 Vac	
Voltage Range	110 ~ 176 V AC (linearderating between 50% and 100% load); 176 ~ 288 Vac (no derating)	
Proportiona Frequency	50 / 60 Hz (auto-sensing)	
Frequency Range	40 ~ 70 Hz	
Power Factor	≥0.99	
Bypass Voltage Range	-40% ~ +15% (settable)	
Total Harmonic Distortion (THDi)	≤5%	
OUTPUT		
Output Wiring	Single-phasethree-wire (1Φ + N + PE)	
Rated Voltage	208(PF=0.9) / 220 / 230 / 240 V AC	
Voltage Regulation	± 1%	
Frequency	Synchronized to bypass in mains mode; 50 / 60 Hz ± 0.1% Hz in battery mode	
Waveform	Sinusoidal	
Power Factor	1	
Total Harmonic Distortion (THDv)	≤ 1% (linear load); ≤4% (non-linear load)	
Crest Factor	3:1	
Overload	105% ~ 110% for 10 min, 110% ~ 125% for 1 min, 126% ~ 150% for 30 sec.	
BATTERY		
DC Voltage	192 V DC (192V ~ 240 V DC settable)	
Number Of Batteries	16pcs (16 ~ 20 settable)	
Internal Battery (standard model)	12 V/ 7 Ah x 16	12 V/ 9 Ah x 16
Charging Current	Standard model: 1 A; Long time model: 5 A (default),1~ 5 A settable; 12 A (optional)	
Recharge Time	Standard model: 90%capacity restored in 8 hours; Long time model: depend onthe capacity of battery	
SYSTEM		
Yield	≥ 94%at 100% load, max. 95% at 60% load, ≥ 98% in ECO mode	
Transfer time	0 ms	
Protections	Short-circuit,overload, overtemperature, battery low voltage, overvoltage, undervoltage andfan failure	
Max. Number Of Parallel Connections	4	
Communication	RS232(standard), USB / RS485 / dry contacts / SNMP / battery temperaturecompensation (optional)	
Image	LCD+ LED	
OTHER		
Operating Temperature	0°C ~ 40°C	
Storage Temperature	-25°C ~ 55°C (without battery)	
Relative Humidity	0 ~95% (non-condensing)	
Altitude	≤1000 m, derating 1% for each additional 100 m	
IP Rating	IP20	
Noise (at 1 m)	≤ 55 Db	≤58 dB
Size (W x D x H) (mm)	191× 465 × 711 (S), 191 × 465 × 350 (L)	191× 495 × 711 (S), 191 × 495 × 350 (L)
Packed Size (W×D×H) (mm)	310× 654 × 941 (S), 318 × 595 × 475 (L)	310× 685 × 941 (S), 318 × 617 × 475 (L)
Net Weight (kg)	53(S), 14.5 (L)	62(S), 16.5 (L)
Gross Weight (kg)	61(S), 16 (L)	70(S), 18 (L)