

PW-M Series Modular Online UPS

40 / 50 - 400 / 500kVA (380V/400V/415V)

The PW-M series modular, online UPS ranging from 40kVA to 500kVA is designed to protect any critical load for medium and large data Centre achieving maximum availability. The PW-M series feature the latest technology of 3-level technology and PFC input control, which guarantees high efficiency of 96% and ultra-reliability. Its compact design ensures power density of 500kVA in one cabinet, 3 units can be paralleled for capacity or redundancy up to 1500kVA, making it an excellent choice for medium and large facilities.



Features

Compact design

500kVA in one cabinet, footprint less than 1.45m², saving valuable room space

High power density

50kVA power module in 4 U height, easy for capacity expansion

High efficiency

Advanced 3-level technology guarantees high efficiency operating in double conversion mode up to 96%

Intelligent charging management

The system intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery

High scalability

The system can be configured from 40kVA to 500kVA in one single cabinet, 3 units in parallel for a capacity up to 1500kVA

Friendly HMI

10.4" touch colour LCD with graphic display, independent LCD for each power module

Smart sleep function

System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency

Multi communication interface

Provide RS232, RS485, USB, SNMP, AS400 and programmable dry contacts

Specification

MODEL			PM 500/50X	PM 400/50X	PM 300/50X	PM 200/50X	PM 100/50X	PM 400/40X	PM 320/40X	PM 240/40X	PM 160/40X	PM 80/40X
System Capacity			500kVA	400kVA	300kVA	200kVA	100kVA	400kVA	320kVA	240kVA	160kVA	80kVA
Power Module Capacity			50kVA/50kW						40kVA/40kW			
Input	Dual Input		Standard	Optional	Standard				Optional	Standard		
	Phase		3 Phase+Neutral+Ground, 380V/400V/415V(line-line)									
	Input Voltage Range		304~478Vac (line-line),full load; 228V~304Vac (line-line),load decreases linearly according to the min phase voltage									
	Rate Frequency		50/60Hz									
	Input Frequency Range		40Hz ~ 70Hz									
	Input PF		>0.99									
	Input THDi		<3% (100% Linear load)									
Bypass	Rate Voltage		380/400/415Vac (line-line)									
	Rate Frequency		50/60Hz									
	Input Voltage Range		Settable, -40% ~ +25%									
	Bypass Frequency Range		Settable, ±1Hz, ±3Hz, ±5Hz									
	Bypass Overload		110% long term 130% for 5 mins 150% for 1 min >150% for 1s		125% long term 130% for 10 mins 150% for 1 min >150% for 300ms		110% long term 125% for 5 mins 150% for 1 min >150% for 1s		125% long term 130% for 10 mins 150% for 1 min >150% for 300ms			
Output	Rate Voltage		380/400/415Vac (line-line)									
	Voltage Regulation		1% for balance load; 1.5% for unbalance load									
	Rate Frequency		50/60Hz									
	Frequency Precision		0.1%									
	Output PF		1									
	Output THDu		<1% , Linear load; <5.5%, Non-linear load									
	Crest Factor		3:1									
Battery	Inverter Overload		110% for 1 hour; 125% for 10 mins ;150% for 1 min; >150% for 200 ms									
	Voltage		±240Vdc									
	Battery Number		40pcs (Settable: even number from 32 to 44)									
	Voltage Precision		±1%									
	Charge Power		up to 20% * Output active power									
System	Battery Cold Start		Standard		Optional		Standard		Optional			
	Efficiency		AC Mode: 96.0% ECO Mode: 99.0% Battery Mode: 96.0%									
	Display		10.4"(240kVA-500kVA) or 7"(80kVA-200kVA) touch screen LCD + LED + keyboard									
	IP Class		IP 20									
	Interface		RS232,RS485, Programmable Dry Contact, USB									
	Option		SNMP Card, Parallel kit, SPD, LBS, Dust filter									
	Temperature		Operation: 0 ~ 40 °C Storage: -40 ~ 70 °C									
	Relative Humidity		0 ~ 95% Non-condensing									
	Altitude		<1000m. Within 1000m, 1% power derating for every 100m rise									
	Noise (1 meter)		72dB @ 100% load, 69dB @ 45% load									
Physical	Applicable Standards		Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3									
	Weight (kg)	Cabinet	450	340	220	170	120	450	340	220	170	120
		Power module	45						44			
	Dimension W*D*H(mm)	Cabinet	1300*1100 *2000	1050*1000 *2000	650*1095 *2000	650*960 *1600	600*980 *1150	1300*1100 *2000	1050*1000 *2000	650*1095 *2000	650*960 *1600	600*980 *1150
Power module		510*700*178										