

PW-M Series Modular Online UPS 20-200kVA (380V/400V/415V)

PW-M series is modular online UPS for sensitive equipments. The single cabinet power rating covers from 20kVA to 200kVA. With the latest IGBT three-level and full DSP control technology, the PW-M series delivers the best of combination of reliability, hot-swappable and flexibility.



Features

Modular design

Up to 20 power modules in parallel online hot-swappable
N+X redundancy

Independent charger

Independent charger for each module and intelligently
control the whole charging process, prolong the life time of
the battery

Battery cold start

UPS can be powered on from the battery without utility

Easy connection access

Top and bottom cable entry connection are supported, more
convenient for site installation

Modular design with transformer

Modular UPS up to 60kVA with in-built isolation transformer,
meeting different requirement for customers

High power density

200kVA with footprints of about 0.5m², saving valuable data
Centre space

Integrated IGBT design

Integrated IGBT in one module, less failure points with
higher performance and reliability

Friendly interface

Touch LCD display with abundant information

Independent air channel

Cooling air runs in isolated channel, keeping PCB free of
dust



Specification

MODEL			PM200/20	PM120/20	PM060/20
System Capacity			200kVA	120kVA	60kVA
Power Module Capacity			20kVA/18kW		
Input	Dual Input		Optional		
	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		125% long term operation; 130% for 1 hour ;150% for 6 mins; 1000% for 100ms		
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		0.9		
	Output THDu		<1% , Linear load; <5.5%, Non-linear load		
	Crest Factor		3:1		
	Inverter Overload		110% for 1 hour; 125% for 10 mins ;150% for 1 min; >150% for 200 ms		
Battery	Voltage		±240Vdc		
	Battery Number		40pcs (Settable: even number from 32 to 44)		
	Voltage Precision		±1%		
	Charge Power		up to 20% * Output active power		
	Battery Cold Start		Standard		
System	Efficiency	AC Mode	95.0%		
		ECO Mode	99.0%		
		Battery Mode	95.0%		
	Display	5.7" touch screen LCD + LED + keyboard			
	IP Class	IP 20			
	Interface	RS232,RS485, Programmable Dry Contact			
	Option	SNMP Card, Parallel kit, SPD, LBS, Dust filter			
	Temperature	Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C			
	Relative Humidity	0 ~ 95% Non-condensing			
	Altitude	<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise			
	Noise (1 meter)	55dB @ 50% load			
Applicable Standards		Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3			
Physical	Weight (kg)	Cabinet	180	150	105
		Power module	22		
	Dimension W*D*H(mm)	Cabinet	600*900*2000	600*900*1600	600*900*1100
		Power module	440*590*134		