

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

RM 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 RM 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 center 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	RM200/20	RM120/20	RM060/20		
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			
Bypass	Input THDi	<3% (100% Linear load)			
	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 Storage: -40 ~ 70 °C			
	Relative Humidity	0 ~ 95% Non-condensing			
	Altitude	<1000m. Within 1000m to 2000m, power derate 1% 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		