

## 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 0.5m<sup>2</sup>, 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 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		