

## RM Series Modular Online UPS

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

The RM series modular, online UPS ranging from 40kVA to 500kVA is designed to protect any critical load for medium and large data center achieving maximum availability. The RM 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 1.45m<sup>2</sup>, 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 color 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		RM500/50X	RM300/50X	RM200/50X	RM100/50X	RM400/40X	RM240/40X	RM160/40X	RM80/40X	
System Capacity		500kVA	300kVA	200kVA	100kVA	400kVA	240kVA	160kVA	80kVA	
Power Module Capacity		50kVA/45kW				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								
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	110% long term operation 130% for 5 mins 150% for 1min >150% for 1s	125% long term operation 130% for 10 mins 150% for 1 min >150% for 300ms	110% long term operation 125% for 5 mins 150% for 1 min >150% for 300ms	125% long term operation 130% for 10 mins 150% for 1 min >150% for 300ms	125% long term operation 130% for 10 mins 150% for 1 min >150% for 300ms	125% long term operation 130% for 10 mins 150% for 1 min >150% for 300ms	125% long term operation 130% for 10 mins 150% for 1 min >150% for 300ms	125% long term operation 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	0.9								
	Output THDu	<1% , Linear load; <5.5%, Non-linear load								
Battery	Crest Factor	3:1								
	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%								
System	Charge Power	up to 20% * Output active power								
	Battery Cold Start	Standard	Optional	Standard	Optional	Standard	Optional	Standard	Optional	
	Efficiency	AC Mode: 95.0% ECO Mode: 99.0% Battery Mode: 95.0%								
	Display	10.4" touch screen LCD + LED + keyboard								
	IP Class	IP 20								
Physical	Interface	RS232,RS485, Programmable Dry Contact, USB								
	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, power derate 1% for every 100m rise								
Physical	Noise (1 meter)	72dB @ 100% load, 69dB @ 45% load								
	Applicable Standards	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3								
	Weight (kg)	Cabinet	450	220	170	120	450	220	170	120
Physical	Power module	45								44
	Dimension W*D*H(mm)	Cabinet	1300*1100 *2000	650*1095 *2000	650*960 *1600	600*980 *1150	1300*1100 *2000	650*1095 *2000	650*960 *1600	600*980 *1150
	Power module	510*700*178								