

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 1.45m², 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 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							
	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 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 1s	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			1				
	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	Optional	Standard	Optional				
System	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							
	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 to 2000m, power derate 1% for every 100m rise							
	Noise (1 meter)	72dB @ 100% load, 69dB @ 45% load							
	Applicable Standards	Safety: IEC/EN 62040-1-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3							
Physical	Weight (kg)	Cabinet	900						
		Power module	45			44			
	Dimension W*D*H(mm)	Cabinet	1300*1100*2000	650*970*2000	650*960*1600	600*980*1150	1300*1100*2000	650*970*2000	650*960*1600
Power module		510*700*178							