

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	RM400/50X	RM300/50X	RM200/50X	RM100/50X	RM400/40X	RM320/40X	RM240/40X	RM160/40X	RM080/40X	
System Capacity			500kVA	400kVA	300kVA	200kVA	100kVA	400kVA	320kVA	240kVA	160kVA	80kVA	
Power Module Capacity			50kVA/50kW						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 130% for 5 mins 150% for 1min >150% for 1s		125% long term 130% for 10 mins 150% for 1 min >150% for 300ms		110% long term 125% for 5 mins 150% for 1 min >150% for 1s			125% long term 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		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: 96.0% ECO Mode: 99.0% Battery Mode: 96.0%										
	Display		10.4"(240kVA-500kVA) or 7"(80kVA-200kVA) 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 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)		72dB @ 100% load, 69dB @ 45% load										
Applicable Standards		Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3											
Physical	Weight (kg)	Cabinet	450	340	220	170	120	450	340	220	170	120	
		Power module	45						44				
	Dimension W*D*H(mm)	Cabinet	1300*1100 *2000	1050*1000 *2000	650*1095 *2000	650*960 *1600	600*980 *1150	1300*1100 *2000	1050*1000 *2000	650*1095 *2000	650*960 *1600	600*980 *1150	
		Power module	510*700*178										