

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	RM400-60X	RM320-60X	RM240-60X	RM160-60X	RM80-60X	
System Capacity	500kVA	400kVA	300kVA	200kVA	100kVA	400kVA	320kVA	240kVA	160kVA	80kVA	
Power Module Capacity	50kVA/50kW		40kVA/40kW		30kVA/30kW		20kVA/20kW		10kVA/10kW		
Dual Input Phase	Standard	Optional	Standard	Optional	Standard	Standard	Optional	Standard	Standard	Standard	
Input Voltage Range	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)										
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 1min >150% for 1s	110% long term 125% for 5 mins 150% for 1min >150% for 1s	125% long term 130% for 10 mins 150% for 1min >150% for 1s	125% long term 130% for 10 mins 150% for 1min >150% for 1s	125% long term 130% for 10 mins 150% for 1min >150% for 1s	125% long term 130% for 10 mins 150% for 1min >150% for 1s	125% long term 130% for 10 mins 150% for 1min >150% for 1s	125% long term 130% for 10 mins 150% for 1min >150% for 1s	125% long term 130% for 10 mins 150% for 1min >150% for 1s	125% long term 130% for 10 mins 150% for 1min >150% for 1s
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										
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	Optional	Standard	Standard	Optional	Optional	Optional	Optional	Optional	
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 Storage: -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										
Weight (kg)	Cabinet	450	340	220	170	120	120	450	340	220	170
	Power module	45	45	45	45	45	45	45	45	45	45
Dimension W*D*H(mm)	Cabinet	1300*1100	1050*1000	650*980	600*980	600*980	600*980	1300*1100	1050*1000	650*980	600*980
	Power module	*2000	*2000	*2000	*1600	*1150	*2000	*2000	*2000	*2000	*1600
		510*700*178									