

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

System Capacity 500kVA 300kVA 200kVA 240kVA 100kVA 80kVA 240kVA 100kVA 80kVA 240kVA 100kVA 80kVA 240kVA 100kVA 40kVA	MODEL			RM500/50X	RM300/50X	RM200/50X	RM100/50X	RM400/40X	RM240/40X	RM160/40X	RM80/40X
Dual Input				500kVA	300kVA	200kVA	100kVA	400kVA	240kVA	160kVA	80kVA
Phase 3 Phase+Neutral+Ground, 380V/400V/415V(line-line) 3044478Vac (line-line),full load; 228V-304Vac (line-line),full load; 228V-304Vac (line-line),full load; 228V-304Vac (line-line),full load; 228V-304Vac (line-line),full cload; 228V-304Vac (line-line) 228V-304Vac (l	Power Module Capacity			50kVA/45kW			40kVA/40kW				
Input Voltage Range	Input	Dual Input		Standard	Optional		Standard	Optional Standard			dard
Input Noting Range 228V-304Vac (line-line), load decreases linearly according to the min phase voltage 150/60Hz		Phase		3 Phase+Neutral+Ground, 380V/400V/415V(line-line)							
Rate Frequency S0/60Hz		Input Voltage Range									
Input PF		Rate Frequency		50/60Hz							
Input THDi		Input Frequency Range		40Hz ~ 70Hz							
Rate Voltage Rate Frequency S00/60Hz		Input PF		>0.99							
Rate Frequency		Input THDi		<3% (100% Linear load)							
Input Voltage Range Settable, -40% - +25%		Rate Voltage		380/400/415VAC (line-line)							
Bypass Bypass Frequency Frequency Settable, ±1Hz, ±3Hz, ±5Hz		Rate Frequency		50/60Hz							
Bypass Overload	Bypass	Input Voltage Range		Settable, -40% ~ +25%							
Bypass Overload		Bypass Frequency Range		Settable, ±1Hz, ±3Hz, ±5Hz							
Voltage Regulation		Bypass Overload		130% for 5 mins 150% for 1min		130% for 150% fo	10 mins or 1 min	125% for 5 mins 150% for 1 min		130% for 10 mins 150% for 1 min	
Rate Frequency 50/60Hz	Output	Rate Voltage		380/400/415VAC (line-line)							
Output Frequency Precision 0.1% Output PF 0.9 1 Output THDu <1% , Linear load; <5.5%, Non-linear load		Voltage Regulation		1% for balance load; 1.5% for unbalance load							
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 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 Stantand Optional Efficiency AC Mode: 95.0% ECO Mode: 99.0% Battery Mode: 95.0% Display 10.4" touch screen LCD + LED + keyboard IP 20 Interface RS232,RS485, Programmable Dry Contact, USB 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 Noise (1 meter) 72dB @ 100% load, 69dB @ 45% load Applicable Standards Safety: IEC/EN 62040-1-1 EMC: IEC/EN 62040-2 Performance: IEC/E		Rate Frequency		50/60Hz							
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 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 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 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 Weight (kg) Cabinet 44 </td <td colspan="2">Frequency Precision</td> <td colspan="8">0.1%</td>		Frequency Precision		0.1%							
Crest Factor Inverter Overload 110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms		Output PF		0.9							
Inverter Overload		Output THDu		<1% , Linear load; <5.5%, Non-linear load							
Voltage		Crest Factor		3:1							
Battery Number 40pcs (Settable: even number from 32 to 44)		Inverter Overload		110% for 1 hour; 125% for 10 mins ;150% for 1 min; >150% for 200 ms							
Noltage Precision	Battery	Voltage		±240VDC							
Charge Power		Battery Number		40pcs (Settable: even number from 32 to 44)							
Battery Cold Start		Voltage Precision		±1%							
Efficiency		Charge Power		up to 20% * Out				out active power			
Display		Battery Cold Start		Stan	dard	Opti	onal	Star	dard	Opti	onal
IP Class	System	Efficiency		AC Mode: 95.0% ECO Mode: 99.0% Battery Mode: 95.0%							
Interface		Display		10.4" touch screen LCD + LED + keyboard							
System 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		IP Class		IP 20							
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Altitude		·		Operation: 0 ~ 40 °C Storge: -40 ~ 70 °C							
Altitude		Relative Humidity		·							
Noise (1 meter) 72dB @ 100% load, 69dB @ 45% load		-									
Physical Weight (kg)											
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					650*970	650*960			650*970	650*960	
			Power module				510*70	00*178			