

RM Series Modular Online UPS 40-600kVA (380V/400V/415V)

The RM series modular, online UPS ranging from 40kVA to 600kVA is designed to protect any critical load for medium and large data center achieving maximum availability. The RM series features 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 600kVA 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

600kVA in one cabinet, footprint less than 1.45m², saving valuable room space

High power density

50kVA power module in 4U 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 600kVA 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	RM600/50X	RM500/50X	RM400/50X	RM300/50X	RM200/50X	RM100/50X	RM240/40X	RM160/40X	RM080/40X		
System Capacity	600kVA	500kVA	400kVA	300kVA	200kVA	100kVA	240kVA	160kVA	80kVA		
Power Module Capacity	50kVA/50kW						40kVA/40kW				
Input	Dual Input	Standard									
	Phase	3 Phases + Neutral + Ground, 380/400/415VAC (line-line)									
	Input Voltage Range	304~478Vac (Line-Line),full load 228V~304Vac (line-line),load decrease linearly according to the min phase voltage									
	Rated 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%									
	Input Frequency Range	Settable, ±1Hz, ±3Hz, ±5Hz									
	Bypass Overload	110% Long term operation 110%~125% last for more than 5min 125%~150% last for more than 1min		125%, long time <130%, for 10 mins <150%, for 1 min		110% long term 125% for 5mins 150% for 1min		125%, long time 130%, for 10 minutes 150%, for 1 min			
Output	Rated Inverter 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 10mins;150% for 1min;>150% for 200ms									
	Battery	Battery Rate Voltage	±240VDC								
Battery Number		40pcs (settable: even number from 32 to 44)									
Voltage Precision		1%									
Charger Power		up to 20% *Output active power									
Battery Cold Start		Standard			Optional			Standard		Optional	
System	Efficiency	AC Mode: 96% ECO Mode: 99% Battery Mode: 96%									
	Display	10.4" (240-600kVA) or 7" (80-200kVA) touch screen LCD + LED+ Keyboard									
	IP Class	IP20									
	Interface	RS232, RS485, USB, Programmable dry contact									
	Option	SNMP, Parallel kit, SPD, Dust Filter, LBS									
	Temperature	Operation: 0 ~ 40 °C Storage: -40 ~ 70 °C									
	Relative Humidity	0 ~ 95% Non condensing									
	Altitude	<1000m, Load derated 1% per 100m From 1000 ~ 2000m									
	Noise (1 meter)	72dB @ 100% load, 69dB @ 45% load									
Applicable Standard	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3										
Physical	Weight (kg)	Cabinet	1040	900	700	490	350	210	490	350	210
		Power module	45								
	Dimension W*D*H (mm)	Cabinet	1300*1100*2000	1050*1000*2000	650*1095*2000	650*960*1600	600*980*1150	650*1095*2000	650*960*1600	600*980*1150	
		Power module	510*700*178						510*700*178		