

RM Series Modular Online UPS 100-600kVA (380V/400V/415V)

The RM Series modular online UPS the single cabinet power rating covers from 100kVA to 800kVA, provides the highest power density of 100kW power modules in 4U height, 4 units can be paralleled for capacity maximum up to 3.2MW.

With the patent of Battery Neutral Free design, the RM series deliver the best combination of reliability, hot-swappable and flexibility.



Application

All kinds of medium and large data center, network servers, control system, precision instruments, communication system etc.

Features

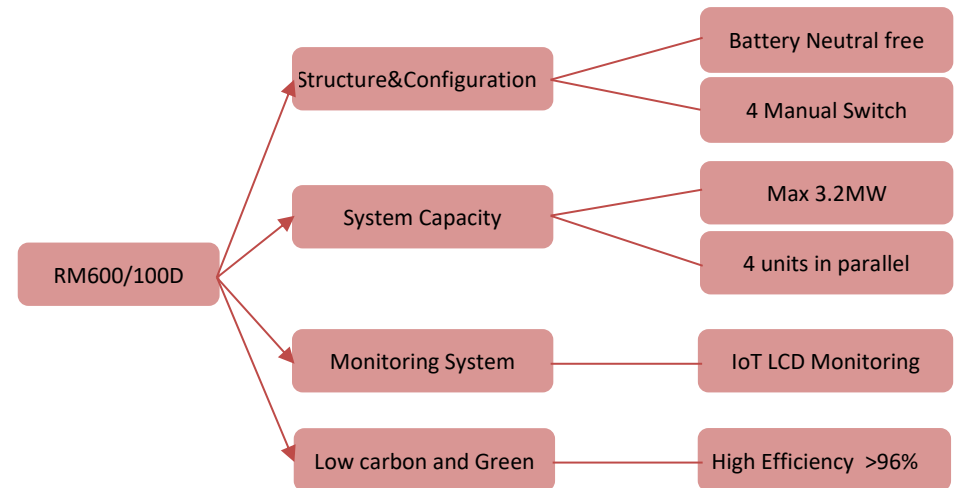
- High efficiency, up to 96%
- Support Lithium battery
- Easy for power expansion and backup time expansion flexible and save more energy
- Modular design, up to 32 power modules in parallel online hot-swappable N+X redundancy
- High power density
- Battery neutral-free design, achieve various battery numbers and horizontal DC voltage
- Friendly interface with 10" touch color LCD with graphic display, intuitive information and easier to operate
- All round detection and monitoring system for safety

High Density, Modular, Scalable

- High power density, footprint for 600kW is 1.1m, power density 545kW/m, saving valuable data center space
- Scalable from 100kVA to 3.2MW, max 40 power modules in parallel



4 units in parallel



Friendly Interface

Provide graphical and text-based information of alarms, status data, and instructions that users can have more friendly display and safer operation from this 10-inch color touch LCD screen for IoT application and intelligent monitoring.



Impact Structure Design

This series Modular UPS is equipped with hot-swappable power module and bypass & monitoring modules which is designed for easy maintenance and redundancy. 100kVA power capacity in 4U high module, combine with bypass module which is integrated various communication port.



- Reliable Performance**
 3 level inverter, fully digital control, achieving the input power factor >0.99, input THDi <3% and overall efficiency >96%.
- Battery Intelligent Application**
 support 30-48 pcs batteries, shared battery in parallel system N line free and support Lithium battery.
- Small Size Large Capacity**
 High power density and easy to expand to meet the larger data center application site.



- Kinds of Cabinets**
 5/6/8 slots cabinet, flexible configuration for different project requirements and limit of the room space.

- Various Data Transfer Port**
 Adequate standard & optional part to select, such as RS485, USB, CAN, programmable dry contact and SNMP card.

- Convenient Software Buring & Upgrade Version**
 SD card slot on the bypass module, burning software without outage to the load, no need to pulling out the module.

- Four Breakers**
 Equipped with input, bypass, output and maintenance bypass switch to provide clear operation guidance.



Specification

MODEL		RM600/100D	
System Capacity		600kVA	
Power Module Capacity		100kVA/100kW	
Input	Dual Input	Optional	
	Phase	3 Phase+Neutral+Ground, 380V/400V/415V(line-line)	
	Input Voltage Range	304~478Vac (line-line), full load; 323V~138Vac (line-line), load decreases linearly according to the min phase voltage	
	Rate Frequency	50/60Hz	
	Input Frequency Range	40Hz~70Hz	
	Input PF	>0.99	
Bypass	Input THDi	<3% (100% Linear load)	
	Rate Voltage	380/400/415Vac (line-line)	
	Rate Frequency	50/60Hz	
	Input Voltage Range	Settable, default -20%~+15% Up limit: +10%, +15%, +20%, +25% Down limit: -10%, -15%, -20%, -30%, -40%	
Bypass Frequency Range		Settable, ±1Hz, ±3Hz, ±5Hz	
Bypass Overload		110% long term operation; 110% ~ 125% for 5 mins; 125% ~ 150% for 1 min; 150% ~ 400% for 1 s; >400% less than 200ms	
Output	Rate Voltage	380/400/415Vac (line-line)	
	Voltage Regulation	±1%	
	Rate Frequency	50/60Hz	
	Frequency Precision	±0.1%	
	Output PF	1	
	Output THDu	<1%, Linear load; <5%, Non-linear load	
Battery	Inverter Overload	<110% for 1 hour; 110%~125% for 10 mins; 125%~150% for 1 min; >150% for 200ms	
	Voltage	±180 ~ 288VDC 30 ~ 32pcs derate to 0.7 34 ~ 36pcs derate to 0.8 38pcs derate to 0.9 40 ~ 48pcs	
	Voltage Precision	±1%	
Charge Power		Up to 15% * Output active power	
System	Efficiency	AC Mode	>96%
		Battery Mode	>96%
	Display	LED+ Color touch LCD screen	
	Interface	RS485, USB, CAN, Programmable Dry Contact, 2 Intelligent slots, Expandable dry contact card slot	
	Option	SNMP Card, AS400 Card, Parallel kit, SPD, LBS, Common battery kit, GSM	
	Temperature	Operation: 0~40 °C Storage: -40~70 °C	
	Relative Humidity	0~95% non-condensing	
	Noise (1 meter)	75dB @ 100% load, 70dB @ 45% load	
	Altitude	<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise	
	Physical	Weight (kg)	Cabinet
Power module			50
Dimension W*D*H(mm)		Cabinet	1000*1100*2000
		Power module	440*794.5*174