

## 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 600kVA, 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 communication of BMS system, the RM series deliver the Lithium battery information of cell voltage and cell temperature.



### Application

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

### Features

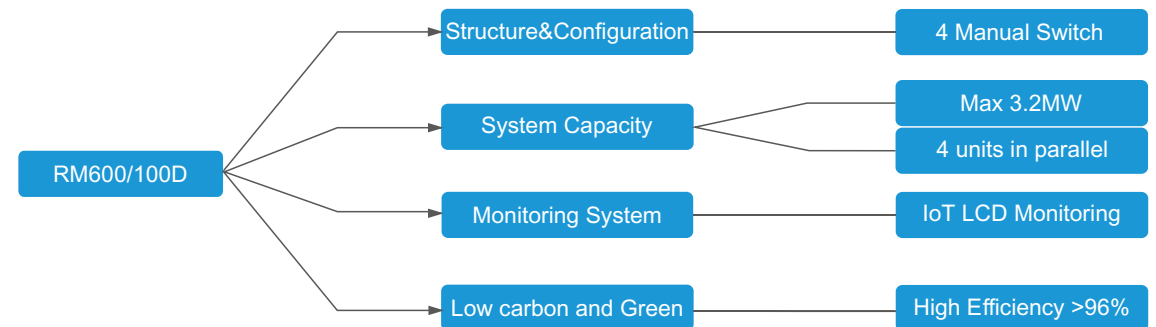
- High efficiency, up to 96%
- Support Lithium battery
- Easy for power expansion and backup time expansion flexible and save more energy
- Modular design, up to 32 power modules in parallel online hot-swappable N+X redundancy
- High power density
- BMS lithium battery data can be seen on the screen of UPS after choosing the corresponding protocol
- 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<sup>2</sup>, power density 545kW/m<sup>2</sup>, saving valuable data center space
- Scalable from 100kVA to 3.2MW, max 32 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 height module, combine with bypass module which is integrated various communication port.



- **Reliable Performance**  
3 level inverter, fully digital control, achieving input power factor>0.99, input THDi<3%, overall efficiency>96%.
- **Small Size Large Capacity**  
High power density, easy to expand to meet the larger data center application site.
- **Four Breakers**  
Equipped with input, bypass, output and maintenance bypass switch to save later construction.



- **Kinds of Cabinets**  
6 slots cabinet, flexible configuration for different project requirements and limit of the room space.
- **Various Data Transfer Port**  
Adequate ports, such as RS485,USB, CAN, programmable dry contact and SNMP card.
- **Convenient Software Buring & Upgrade Version**  
burning software without outage to the load, no need to pulling out the module.



## Specification

Model		RM600/100D	
System Capacity		600kVA	
Power Module Capacity		100kVA/100kW	
Input	Dual Input	Optinal	
	Phase	3Phase+Neutral+Ground, 380/400/415VAC (line-line)	
	Rate Frequency	50/60Hz	
	Input Voltage Range	323~478Vac (line-line), full load; 323V~138Vac (line-line), load decrease linearly according to the min phase voltage	
	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, default -20% ~ +15% Up limit: +10%, +15%, +20%, +25% Down limit: -10%, -15%, -20%, -30%, -40%	
	Bypass Frequency Range	Settable, ±1Hz, ±3Hz, ±5Hz	
Output	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	
	Rate Voltage	380/400/415VAC (line-line)	
	Rate Frequency	50/60Hz	
	Output PF	1	
	Voltage Regulation	±1%	
	Output THDu	<1% , Linear load, <5% , Non-linear load	
	Inverter Overload	<110% for 1 hour; 110%~125% for 10 mins; 125%~150% for 1 min; >150% for 200ms	
Battery	Frequency Precision	±0.1%	
	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	>95%
	Display	LED+ Color touch LCD screen	
	Interface	RS485, USB, CAN, Programmable Dry Contact, 2 Intelligent slots	
	Option	SNMP Card, AS400 Card, Parallel kit, SPD, LBS, 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	
Physical	Altitude	<1000m. Within 1000~2000m, 1% power derating for every 100m rise	
		Dimension (W*D*H,mm)	Cabinet
	Weight (kg)	Power module	440*795*174
		Cabinet	400
	Power module	53.5	