

# KAISE+UPS KU+ RM 100-600KVA - 380 MODULAR



The KU+ 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

- $F_p \geq 0,99$
- High efficiency, up to 96%
- Support Lithium battery
- Easy for power expansion and backup time expansion
- flexible and save more energy
- High power density
- display, intuitive information and easier to operate
- Friendly interface with 10" touch color LCD with graphic
- BMS lithium battery data can be seen on the screen
- of UPS after choosing the corresponding protocol
- Modular design, up to 32 power modules in parallel
- online hot-swappable N+X redundancy All round detection and monitoring system for safety

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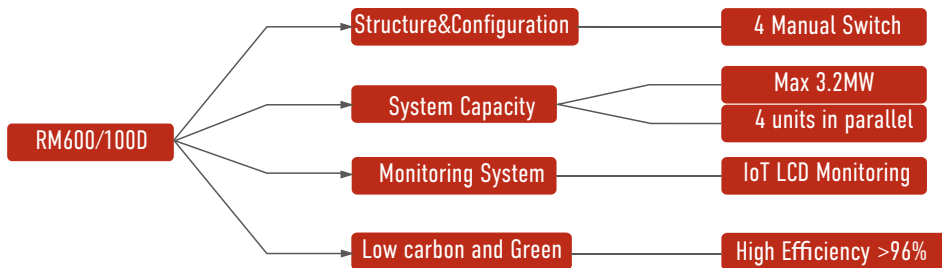


## High Density, Modular, Scalable

- 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

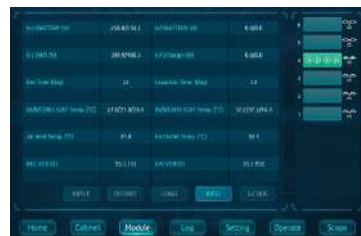


4 units in parallel



## 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.



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## 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.



- **Kindsof 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.



# KAISE+UPS KU+ RM

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### Specification

Model		RM600/100D	
System Capacity		600kVA	
Power Module Capacity		100kVA/100kW	
Input	Dual Input	Optional	
	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, $\pm 1$ Hz, $\pm 3$ Hz, $\pm 5$ Hz	
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	$\pm 1$ %	
	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	$\pm 0.1$ %	
	Voltage	$\pm 180 \sim 288$ VDC 30 ~ 32pcs derate to 0.7 34 ~ 36pcs derate to 0.8 38pcs derate to 0.9 40 ~ 48pcs	
	Voltage Precision	$\pm 1$ %	
	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	
	Altitude	<1000m. Within 1000~2000m, 1% power derating for every 100m rise	
Physical	Dimension (W*D*H,mm)	Cabinet	1000*1100*2000
		Power module	440*795*174
	Weight (kg)	Cabinet	500
		Power module	50

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