

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

The PWM Series modular 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 PWM series deliver the Lithium battery information of cell voltage and cell temperature.



Application

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

Features

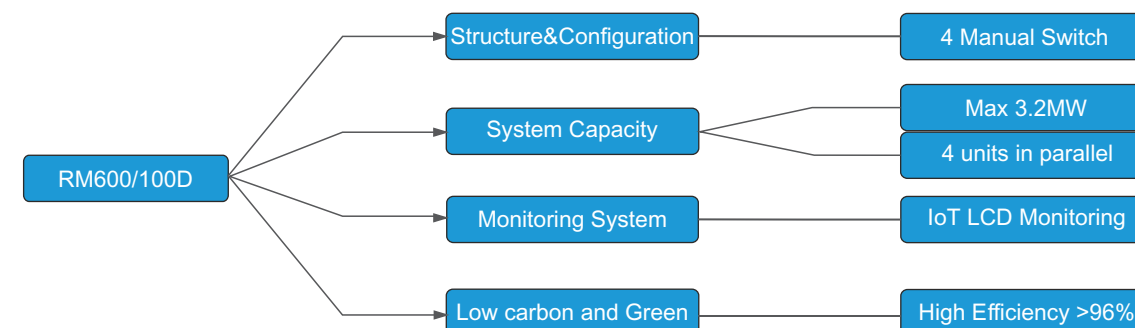
- High efficiency, up to 96%
- Support Lithium battery
- Easy for power expansion and backup time expansion flexible and save more energy
- Modular design, up to 32 power modules in parallel online hot-swappable N+X redundancy
- High power density
- BMS lithium battery data can be seen on the screen of UPS after choosing the corresponding protocol
- Friendly interface with 10" touch colour 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 1.1m², power density 545kW/m², saving valuable data centre space
- Scalable from 100kVA to 3.2MW, max 40 power modules in parallel



4 Units in parallel



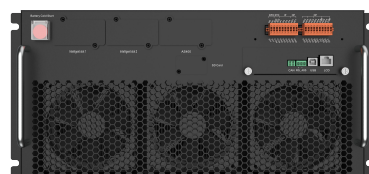
Friendly Interface

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 colour 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 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 centre application site
- **Four Breakers**
Equipped with input, bypass, output and maintenance bypass switch to save later construction

- **Kinds of Cabinets**
6 slot 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 pull out the module



Specification			
MODEL			PWM600/100
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		323~478Vac (line-line),full load; 228V~304Vac (line-line),load decreases linearly according to the min phase voltage
	Rate 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 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; 130% for 1 hour ;150% for 6 mins; 1000% for 100ms 150% ~400% for 1s; >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
	Inverter Overload		110% for 1 hour; 125% for 10 mins ;150% for 1 min; >150% for 200 ms
			125% ~150% for 1 min; >150% for 200ms
Battery	Voltage		± 180 ~ 288VDC
			30 ~ 32 pcs derate to 0.734~ 36 pcs derate to 0.8
			38 pcs derate to 0.940 ~48 pcs
	Voltage Precision		±1%
	Charge Power		up to 15% * Output active power
System	Efficiency	AC Mode	>96%
		Battery Mode	>95%
	Display		LED+ Colour 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 Storge: -40 ~ 70 °C
	Relative Humidity		0 ~ 95% Non-condensing
	Altitude		<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise
	Noise (1 meter)		75dB @ 100% load, 70dB@ 45% load
Physical	Dimension	Cabinet	1000*1100*2000
	W*D*H(mm)	Power module	440*794.5*174
		Cabinet	500
	Weight (kg)	Power module	50