

RML Series Modular Online UPS

15-400kVA (200V/208V/220V)

The RML series modular UPS provides the most compact footprint of less than 2m² with maximum capacity of 600kVA in parallel. With best reliability and high performance, it has been leading the domestic market for years.

The RML series is considered to be the best power protection solution for large data centers, as well as for sensitive electronics.



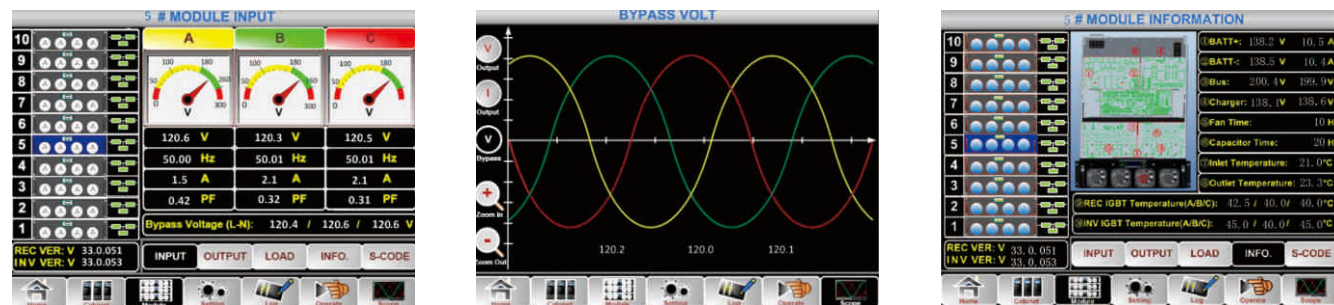
Independent LCD for Each Power Module

Each power module has an independent LCD, gives users' direct overview of status data and alarms in real time.



Friendly Interface

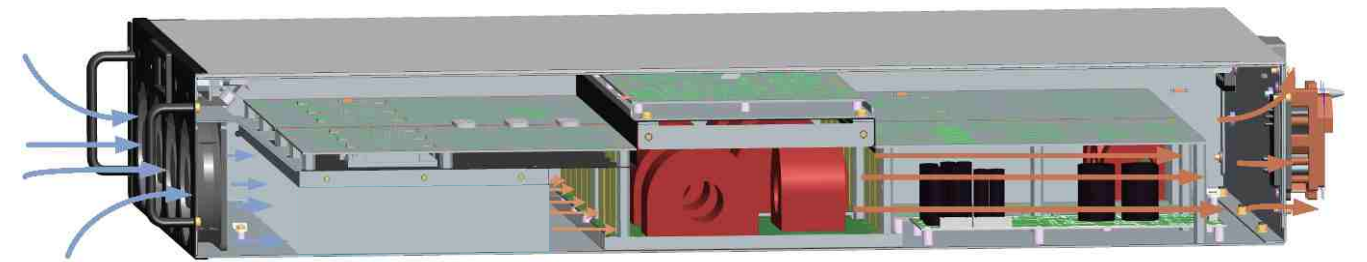
Provide graphical and text based information of alarms, status data, instructions that users can have more friendly and safer operation.



Isolated Air Flow

The dedicated and redundant hot-swappable power modules take the most unique structure design. In this design, the PCB boards and heat-sinkers are in two completely different layers, which allows the UPS run in dusty environments, significantly improving its stability and environmental adaptability.

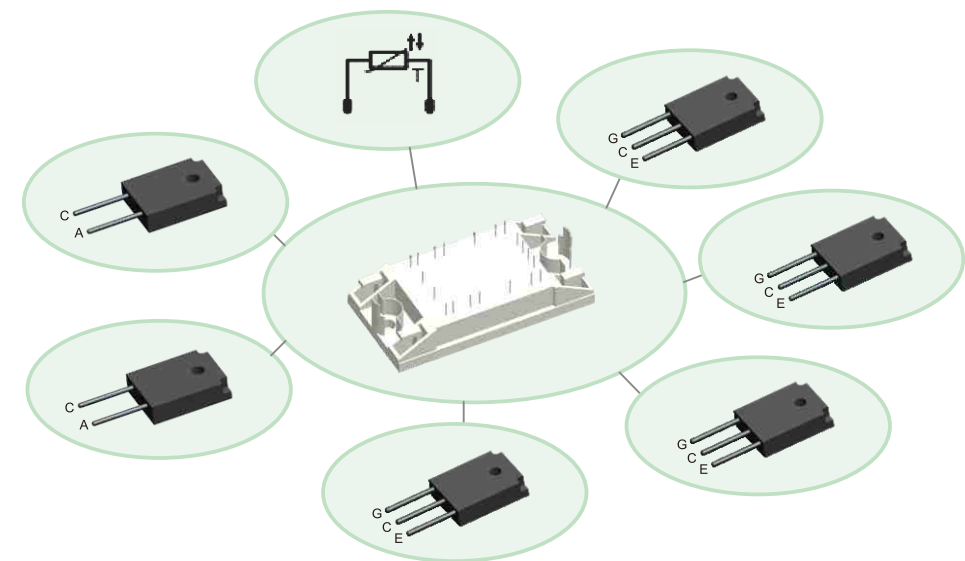
- Cooling air flows in the lower layer, keeping the upper PCB free of dust
- One air flow channel ensures fans redundancy, even one fan fails, power module can run normally



Unique Design for High Reliability

Instead of discrete IGBT and SCR components, RML series UPS uses modular IGBT and SCR in Rectifier and Inverter, bringing in extremely high reliability.

- All components in one module, less fault points, higher reliability
- All components integrated as one modular design, smaller disparity
- Less space needed, UPS with compact design and higher power design
- Integrated inner thermal sensors, display IGBT inner temperature directly



High Density ,Modular, Scalable

- High power density, footprint for 200kVA is 0.66m², power density 240kW/m², saving valuable data center space
- Scalable from 20kVA to 600kVA, max 30 power modules in parallel



Three units in parallel

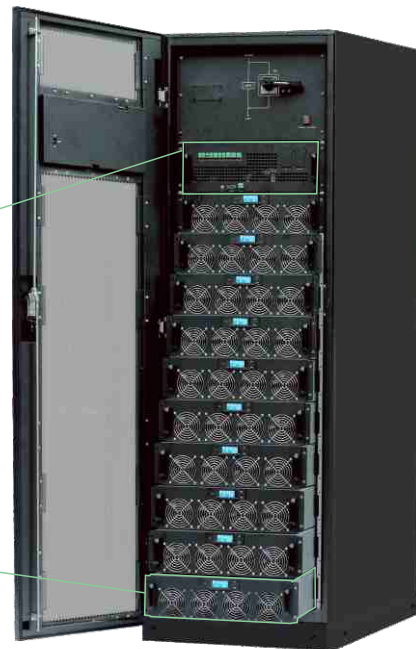
- Inherently N+X redundant
- Hot-swappable power module and bypass & monitoring module
- Additional charging module, extra charging current 50A × N for long time back up application



Bypass & Monitoring module



Power module



Specification

MODEL	RML400/20X	RML200/20X	RML120/20X	RML300/15X	RML150/15X	RM090/15X	
Capacity	400kVA/320kW	200kVA/160kW	120kVA/96kW	300kVA/300kW	150kVA/150kW	90kVA/90kW	
Power module	PML20X (20kVA/16kW)			PML15X (15kVA/15kW)			
INPUT							
Phase	3 Phase + Neutral + Ground, 200V/208V/220V (line-line)						
Voltage range	166-261Vac (line-line), full load; 166-125Vac (line-line), load derated linearly						
Frequency range	40Hz-70Hz						
Power factor	>0.99						
THDi	THDi<3% @ 100% linear load						
OUTPUT							
Voltage	200V/208V/220V						
Voltage regulation	±1% for balance load; ±1.5% for unbalance load						
Power factor	0.8			1.0			
THDu	THD<1% (linear load), THD<6% (non-linear load)						
Crest factor	3:1						
Overload capability	110% for 1 hour; 125% for 10 min; 150% for 1 min; >150% for 200ms						
BATTERY							
Voltage	±120VDC						
Charge power precision	±1%						
Charge power	20%*System Power						
SYSTEM							
System efficiency	Normal mode:>93%; ECO mode:>98%; Battery mode:>93%						
Display	10.4" color touch screen LCD + LED + Keyboard						
IP class	IP20						
Interface	Standard: RS232, RS485, Dry contacts, USB; Optional: SNMP, Expansion dry contact card						
Operation/Storage temperature	0-40°C/-40-70°C						
Relative humidity	0-95% (non-condensing)						
Noise	72dB @ 100% load, 68dB @ 45% load (1 meter away)	65dB @ 100% load, 62dB @ 45% load (1 meter away)		72dB @ 100% load, 68dB @ 45% load (1 meter away)	65dB @ 100% load, 62dB @ 45% load (1 meter away)		
PHYSICAL							
Weight(kg)	Cabinet	660	220	165	660	220	165
	Power Module	PML20X: 34			PML15X: 32		
Dimension (W*D*H) (mm)	Cabinet	2000*1050*2000	600*1100*2000	600*1100*1600	2000*1050*2000	600*1100*2000	600*1100*1600
	Power Module	PML20X/ PML15X: 460*790*134					