

# MTR-RM

## Modular Online UPS

25-600kVA (25 & 30 kVA module)  
(380V/400V/415V)



### Product

The RM series modular UPS provides the most compact footprint of less than 2m<sup>2</sup> with maximum capacity of 900kVA. With best reliability and high performance, it has been leading the domestic market for years. RM series is considered to be the best power protection solution for large data centers, as well as for sensitive electronics.

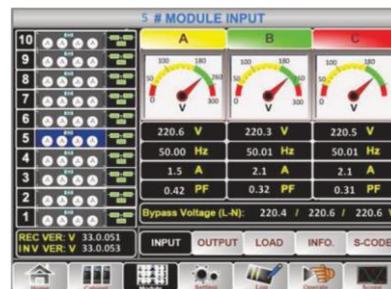
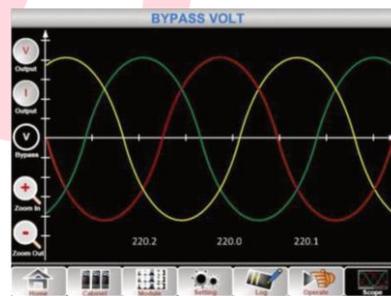
#### Independent LCD for each Power Module

Each Power Module has independent LCD, give users' direct overview of status data and alarm in real time.



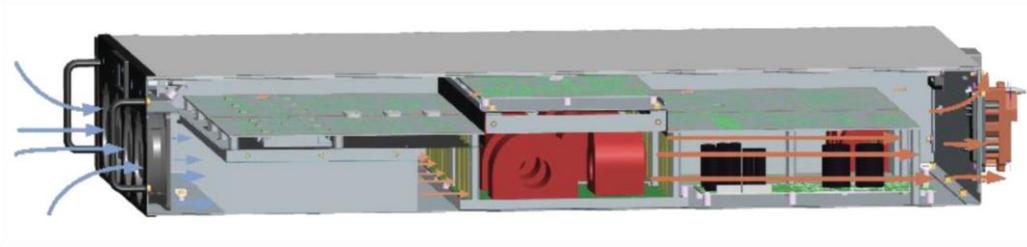
### Friendly Interface

10.4" LCD Touch Screen Display Provides graphical and text based information of alarms, status data, instructions that users can have more friendly and safer operation.



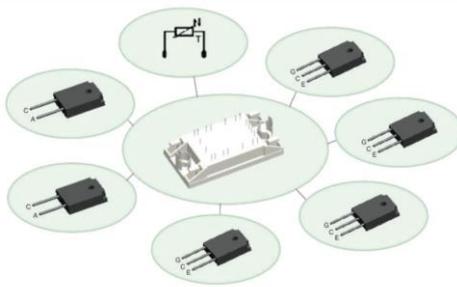
## Isolated Air Flow

The hot-swappable power modules take unique structure design. In the design, PCB boards and heat-sinks are in two completely different layers, cooling air flows in the lower layer, while keeping the upper PCBs free of dust, which allows the UPS run in dusty environments, significantly improving its stability and environmental adaptability.



## Unique Design for High Reliability

Modular IGBT and SCR design, one modular IGBT or SCR equals many discrete IGBT and SCR components, 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 sensor, can display the inner temperature directly.



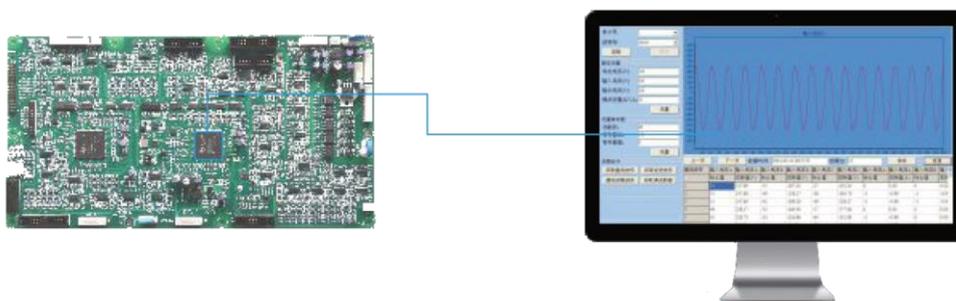
## High Density, Modular Scalable

High power density footprint for 300kVA is 0.66m<sup>2</sup>, power density 400KW/m<sup>2</sup>, saving valuable data center space. Scalable from 30kVA to 900kVA (27kW to 810kW), max 30 power modules 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.



## Critical Waveform Recording

UPS can record and save the data of the main parameters automatically when faults happen and can be used for further analysis. Can record data information and present as waveform for further analysis. Can easily spot the causes of the failures, avoid future similar faults.

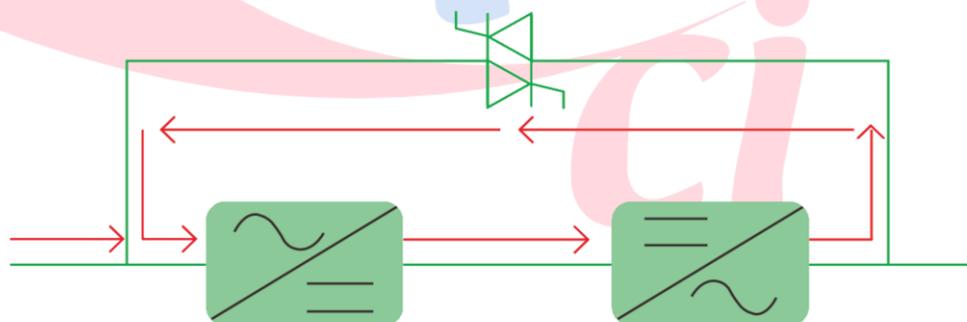


## Smart Sleep

Smart Sleep function can intelligently make some power modules go to sleep, when load is relatively low, improving the total system efficiency and saving customers on power and cooling costs. Improving efficiency, reducing power and cooling costs. Easy setting with just two steps. Customer can sleep mode and rotation period. Power modules working in rotation, prolong the life time.

## Self-aging

Self-aging is an advanced function applied in all three phase UPS, Self-aging function can test UPS under different load situation without real load, saving more than 90% of energy. Simulate different load conditions without connecting to any real load, saving 90% of energy. Available in both single and dual inputs connection. On site setting supported, easy for factory testing.



## Programmable Dry Control

Programmable dry contacts are available in all RM and MST-Pro series UPS. Customers can easily expand or modify the definition of each pin. Abundant options with three inputs and four output, all programmable. Easy setting, just pull the -down menu and set. Compatible with all the RM and MST-Pro.

Model	RM600/30X	RM300/30X	RM180/30X	RM500/25X	RM250/25X	RM150/25X	
Capacity	600kVA	300kVA	180kVA	500kVA	250kVA	150kVA	
	540kW	270kW	162kW	500kW	250kW	150kW	
Power Module	PM30X(30kVA/27kW)			PM25X(25kVA/25kW)			
<b>Input</b>							
Phase	3 Phase+ Neutral + Ground,380V/400V/415V (line to line)						
Voltage range	304-478Vac (Line-Line) full load; 228V-304Vac (Line-Line), load decrease linearly according to the min phase voltage						
Frequency range	40Hz-70Hz						
Power factor	>0.99						
THDi	THDi<3%@100%linear load						
<b>Output</b>							
Voltage	380V/400V/415V						
Voltage regulation	1.50%						
Power Factor	0.9			1			
THDu	THD <1.5% (linear load), THD <5% (None linear load)						
Crest ratio	3 : 1						
Overload capability	110% for 1 hour; 125% for 10 minutes ;150% for1 minute; >150% for 200ms						
<b>Battery</b>							
Voltage	±240VDC						
Charge Power	±1%						
Precision	±1%						
Charge Power	20%*System Power						
<b>System</b>							
System Efficiency	Normal mode : 95%; ECO mode: 99%; Battery mode : 95%						
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,	65dB @ 100% load,	72dB @ 100% load,	65dB @ 100% load,			
	68dB @ 45% load (1 meter away)	62dB @ 45% load (1 meter away)	68dB @ 45% load (1 meter away)	62dB @ 45% load (1 meter away)			
<b>Physical</b>							
Dimension (WxDxH)	Cabinet	2000*1050*2000 (mm)	600*1100*2000 (mm)	600*1100*1600 (mm)	2000*1050*2000 (mm)	600*1100*2000 (mm)	600*1100*1600 (mm)
	Power module	PM30X / PM25X : 460*790*134 (mm)					
Weight	Cabinet	660kg	220kg	165kg	660kg	220kg	165kg
	Power module	PM30X : 34kg			PM25X : 32kg		