

MTR-RM

Modular Online UPS

40-500kVA

(380V/400V/415V)



Product

The RM series modular, online UPS ranging from 40kVA to 500kVA is designed to protect any critical load for medium and large data center achieving maximum availability. The RM series feature the latest technology of 3-level technology and PFC input control, which guarantees high efficiency of 96% and ultra-reliability. Its compact design ensures power density of 500kVA in one cabinet, 3 units can be paralleled for capacity or redundancy up to 1500kVA, making it an excellent choice for medium and large facilities.



Features

- **Compact design**
500kVA in one cabinet, footprint less than 1.45m² saving valuable room space
- **High power density**
50kVA power module in 4U height, easy for capacity expansion
- **High efficiency**
Advanced 3-level technology guarantees high efficiency operating in double conversion mode up to 96%
- **Intelligent charging management**
The system intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery
- **High scalability**
The system can be configured from 40kVA to 500kVA in one single cabinet, 3 units in parallel for a capacity up to 1500kVA
- **Friendly HMI**
10.4" touch color LCD with graphic display, independent LCD for each power module
- **Smart sleep function**
System can intelligently shut down some power modules to increase total load rate, achieving higher efficiency
- **Multi communication interface**
Provide RS232, RS485, USB, SNMP, AS400 and programmable dry contacts

TM

Model	RM100/ 50X	RM200/ 50X	RM300/ 50X	RM500/ 50X	RM80 /40X	RM1600/ 40X	RM240/ 40X	RM400/ 40X	
Capacity	100kVA/ 100kW	200kVA/ 200kW	300kVA/ 300kW	500kVA/ 500kW	80kVA/ 80kW	160kVA/ 160kW	240kVA/ 240kW	400kVA/ 400kW	
Power Module	PM50X (50kVA/45kW)				PM40X (40kVA/40kW)				
Input									
Grid System	3 Phases + Neutral + Ground (frame)								
Rated Input Voltage	380/400/415VAC (Line-Line)								
Rated Frequency	50/60Hz								
Input Voltage Range	304~478Vac (Line-Line),full load 228V~304Vac (Line-Line),load decrease linearly according to the min phase voltage								
Input Frequency Range	40Hz ~ 70Hz								
Input Power Factor	>0.99								
Input Current THDi	<3%(full Linear Load)								
Bypass Input									
Rated Bypass Voltage	380/400/415VAC (Line-Line)								
Rated Frequency	50/60Hz								
Bypass Voltage Range	Selectable, default -20% ~ +15% Up limited : +10%, +15%, +20%, +25% Down limited : -10%, -15%, -20%, -30%, -40%								
Bypass Frequency Range	Selectable, ±1Hz, ±3Hz, ±5Hz								
Output									
Rated Inverter Voltage	380/400/415VAC (Line-Line)								
Rated Frequency	50/60Hz								
Output Power Factor	1				1				
Voltage precision	±2%								
Transient Respons	<5%for step load (20%- 80%-20%)								
Transient recovery	<30msfor step load (0%- 100%-0%)								
Output Voltage THDu	<1.5%from 0%to 100%linear load <5.5%full non-linear load according to IEC/EN62040-3								
Inverter Overload	<110%, 60min; 110%~125%,10min; 125%~150%,1min; >150%, 200ms								
Frequency Regulation	50 / 60Hz ±0.1%								
Synchronized Range	Settable, ±0.5Hz ~ ±5Hz, default ±3Hz								
Synchronized Slew Rate	Settable, 0.5Hz/S ~ 3Hz/S, default 0.5Hz/S								
Battery and Charger									
Battery Rate Voltage	±240VDC								
Charger Voltage precision	1%								
Charger Power	max=20%								
Efficiency									
Normal Operation	>96%								
Battery Operation	>96%								
System									
Display	LCD + LED + Touch screen								
Environment									
Operation Temperature	0°C ~ 40°C								
Storage Temperature	-40°C ~ 70°C								
Relative Humidity	0 ~ 95%								
Non-condencing Noise (1 meter)	65dB @ 100% load, 62dB @ 45% load Non-condencing								
Altitude	<1000m, Load derated 1%per 100m From 1000 ~ 2000m								
Physical									
Dimension (WxDxH) cm	Cabinet	60*98*115	65*96*160	65*96*200	130*110*200	60*98*115	65*96*160	65*96*200	130*110*200
	Power module	51*70*17.8							
Weight	Cabinet	120	170	220	450	120	170	220	450
	Power module	45							