

# 40-400kVA (380V/400V/415V) WTHD RM Series Modular Online UPS

## Product description:

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



## Product characteristics:

### Compact design

500kVA in one cabinet, footprint less than 1.45m², saving valuable room space

### High power density

50kVA power module in 4 U 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 shutdown some power modules to increase total load rate, achieving higher efficiency

### Multi communication interface

Provide RS232,RS485,USB,SNMP,AS400 and programmable dry contacts

## Product Specifications

MODEL			RM400/40X	RM320/40X	RM240/40X	RM160/40X	RM080/40X	
System Capacity			400kVA	320kVA	240kVA	160kVA	80kVA	
Power Module Capacity			40kVA/40kW					
Input	Phase		3 Phase+Neutral+Ground, 380V/400V/415V(line-line)					
	Voltage Range		304~478Vac (line-line ),full load;228V~304Vac (line-line) , load decreases linearly according to the min phase voltage					
	Rate Frequency		50/60Hz (Frequency Range : 40Hz ~ 70Hz)					
	Input PF		>0.99					
	Input THDi		<3% (100% Linear load )					
Bypass	Voltage Range		380/400/415Vac (line-line) (Settable, -40% ~ +25%)					
	Rate Frequency		50/60Hz (Settable, ±1Hz, ±3Hz, ±5Hz)					
	Bypass Overload		110% long term, 125% for 5 mins , 150% for 1 min , >150% for 1s			125% long term, 130% for 10 mins , 150% for 1 min , >150% for 300ms		
Output	Rate Voltage		380/400/415Vac (line-line)					
	Voltage Regulation		1% for balance load ; 1.5% for unbalance load					
	Rate Frequency		50/60Hz±0.1%					
	Output PF		1.0					
	Output THDu		<1% , Linear load ; <5.5%, Non-linear load					
	Crest Factor		3:1					
	Inverter Overload		110% for 1 hour; 125% for 10 mins ; 150% for 1 min ; >150% for 200 ms					
Battery	Voltage		±240Vdc					
	Battery Number		40pcs (Settable: even number from 32 to 44)					
	Charge Power		up to 20% * Output active power					
	Efficiency	AC Mode	96%					
ECO Mode		99%						
Battery Mode		96%						
System	Display		10.4"(240kVA-500kVA) or 7"(80kVA-200kVA) touch screen LCD + LED + keyboard					
	IP Class		IP20					
	Interface		RS232,RS485, Programmable Dry Contact , USB					
	Option		SNMP Card, Parallel kit, SPD, LBS, Dust filter					
	Temperature		Operation : 0 ~ 40 ℃ , Storage : -40 ~ 70 ℃					
	Relative Humidity		0 ~ 95% Non-condensing					
	Altitude		<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise					
	Noise (1 meter)		72dB @ 100% load , 69dB @ 45% load					
	Applicable Standards		Safety: IEC/EN 62040-1, EMC: IEC/EN 62040-2, Performance : IEC/EN 62040-3					
	Physical	Weight (kg)	Cabinet	900	700	490	350	210
			Power module	44				
Dimension		Cabinet	1300*1100*2000	1050*1000*2000	650*1095*2000	650*960*1600	600*980*1150	
W*D*H(mm)		Power module	510*700*178					