50-500kVA (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

† HMI 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

Power Module Capacity 3 Phase 3 Phase+Neutral-Ground, 380V/400V/455V(Ine-line)	MODEL			RM500/50X	RM400/50X	RM300/50X	RM200/50X	RM100/50X
Phase 3 Phase + Neutral+Ground, 380V/400V/415V((ine-line)	System Capacity			500kVA	400kVA	300kVA	200kVA	100kVA
Voltage Range 304-478Vac (line-line), full load;228V-304Vac (line-line), load decreases linearly according to the min phase voltage 104	Power Module Capacity			50kVA/50kW				
Notage Range So/Gobre So/Gobre Rate Frequency So/Gobre Rate Frequency So/Gobre Rate Frequency So/Gobre Rate Frequency So/Gobre Rate		Phase		3 Phase+Neutral+Ground, 380V/400V/415V(line-line)				
Rate frequency S0/60Hz (frequency Range: 40Hz - 70Hz)	Input	Voltage Range						
Input THDI Voltage Range 380/400/415Vac (line-line) (Settable, -40% - +25%) 8ypass Rate Frequency 50/60Hz (Settable, ±1Hz, ±3Hz, ±5Hz) 8ypass Overload 110% long term, 125% for 5 mins, 150% for 1 min, >150% for 1 mins for 1 min, >150% for 300ms 880/400/415Vac (line-line) Rate Voltage Voltage Regulation Rate Frequency 10% long term, 125% for 5 mins, 150% for 1 min, >150% for 1 min, >150% for 300ms 880/400/415Vac (line-line) Voltage Regulation Rate Frequency 0utput PF 1.0 Output THDu Crost Factor Inverter Overload 110% for 1 hour, 125% for 10 mins, 150% for 1 min; >150% for 200 ms Voltage 8attery 8attery Number Voltage 40pcs (Settable, even number from 32 to 44) Up to 20% * Output active power AC Mode 99% Efficiency ECO Mode 99% Battery Mode 10.4*(240kVA-500kVA) or 7*(80kVA-200kVA) touch screen LCD + LED + keyboard IP Class		Rate Frequency		50/60Hz (Frequency Range: 40Hz~70Hz)				
Voltage Range 380/400/415Vac (line-line) (Settable, ~40% ~ + 25%)		Input PF		>0.99				
Bypass Rate Frequency S0/60Hz (Settable, ±1Hz, ±3Hz, ±3Hz, ±5Hz)		Input THDi		<3% (100% Linear load)				
Bypass Overload 110% long term, 125% for 5 mins, 150% for 1 min, >150% for 1s 125% long term, 130% for 10 mins for 1 min, >150% for 3 mins, 150% for 1 min, >150% for 300ms 380/400/415Vac (line-line) 380/400/41	Bypass	Voltage Range		380/400/415Vac (line-line) (Settable, -40% ~ +25%)				
Sypass Overload		Rate Frequency						
Voltage Regulation 1% for balance load; 1.5% for unbalance load Rate Frequency 50/60Hz±0.1%		31		110% long term, 125			for 1 min , >15	
Rate Frequency	Output							
Output THDu <1%, Linear load; <5.5%, Non-linear load								
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 Voltage ±240Vdc Battery Number 40pcs (Settable: even number from 32 to 44) Charge Power up to 20% * Output active power AC Mode 96% Efficiency ECO Mode Battery Mode 96% Display 10.4*(240kVA-500kVA) or 7*(80kVA-200kVA) touch screen LCD + LED + keyboard IP Class IP Class IP20 Interface RS232,RS485, Programmable Dry Contact , USB System Option SNMP Card, Parallel kit, SPD, LBS, Dust filter Temperature Operation : 0 ~ 40 °C, Storage : ~40 ~ 70 °C Relative Humidity 0 ~ 95% Non-condensing Altitude <1000m. Within 1000m to 2000m, 1% power derating for every 100m rise								
Inverter Overload								
Voltage Battery Number Charge Power AC Mode Battery Mode Efficiency ECO Mode Battery Mode Display Interface System Option SNMP Card, Parallel kit, SPD, LBS, Dust filter Temperature Relative Humidity Operation: 0 ~ 40 °C, Storage: ~40 ~ 70 °C Relative Humidity Altitude Noise (1 meter) Applicable Standards Cabinet 900 AC Mode 96% Efficiency ECO Mode 99% Battery Mode 96% 10.4"(240kVA-500kVA) or 7"(80kVA-200kVA) touch screen LCD + LED + keyboard IP20 IP20 IP20 SNMP Card, Parallel kit, SPD, LBS, Dust filter Temperature Operation: 0 ~ 40 °C, Storage: ~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) Applicable Standards Safety: IEC/EN 62040-1, EMC: IEC/EN 62040-2, Performance: IEC/EN 62040-3 Cabinet 900 700 490 350 210				The state of the s				
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Battery Mode Display 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 °C, Storage: -40 ~ 70 °C Relative Humidity O ~ 95% Non-condensing Altitude <1000m. Within 1000m to 2000m, 1% power derating for every 100m rise Noise (1 meter) Applicable Standards Safety: IEC/EN 62040-1, EMC: IEC/EN 62040-2, Performance: IEC/EN 62040-3 Cabinet 900 700 490 350 210		Efficiency		96%				
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Option SNMP Card, Parallel kit, SPD, LBS, Dust filter Temperature Operation: 0 ~ 40 °C, Storage: -40 ~ 70 °C Relative Humidity 0 ~ 95% Non-condensing Altitude <1000m. Within 1000m to 2000m, 1% power derating for every 100m rise		Interface		RS232,RS485, Programmable Dry Contact , USB				
Relative Humidity 0 ~ 95% Non-condensing Altitude <1000m. Within 1000m to 2000m, 1% power derating for every 100m rise		Option		SNMP Card, Parallel kit, SPD, LBS, Dust filter				
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 Cabinet 900 700 490 350 210		Temperature		Operation : 0 ~ 40 °C, Storage : -40 ~ 70 °C				
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Cabinet 900 700 490 350 210								
	Physical	Weight (kg)	Cabinet					
45			Power module					
Physical Dimension Cabinet 1300*1100*2000 1050*1000*2000 650*1095*2000 650*960*1600 600*980*		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		W*D*H(mm)	Power module	510*700*178				

