



3P-3P Online double conversion

MTW500 MODULAR UPS

50-600kVA

DSP Control

Smart Sleep Function

Graphic LCD Display





MTW500 Modular UPS are online devices produced with 3-level and DSP technology that provide low THD with high input power factor designed for sensitive loads. Thanks to its hot-swappable modular structure, it has the flexibility to operate at powers between 50 and 600kVA with a single cabinet. It offers the most suitable power solutions for large data centers and sensitive electronic devices. Thanks to its parallelizable design, which takes up less space, it provides the opportunity to reach 1800kVA in an area of less than 4m². It stands out with its rack type design, high power density, user-friendly interface, independent LCD for each power module in addition to 7&10" inch graphical touchscreen, smart sleep function, self-agigng, and smart charge management.

GENERAL SPECIFICATIONS

Compact design

500kVA in one cabinet, footprint less than 1.5m², saving valuable room space

High power density

50kVA power module in 4U height, easy for capacity expansion

High efficiency

Advanced 3-level technology quarantees 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 50kVA to 600kVA in one single cabinet, 3 units in parallel for a capacity up to 1800kVA

User friendly HMI

7&10" touch color LCD with graphic display, IoT function

Smart sleep function

System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency

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TECHNICAL SPECIFICATIONS

MODEL		MTW200/50X1	MTW300/50X1	MTW400/50X1	MTW600/50X1
Capacity		200kVA	300kVA	400kVA	600kVA
Power module capacity		TPW50 (50kVA/50kW)			
INPUT					
Phase		3P5W (3P+N+PE)			
Rate voltage		380V/400V/415VAC (line to line); 220/230/240VAC (line to neutral)			
Rate frequency		50Hz / 60Hz			
Input power factor		> 0.99			
THDI		THDi < 3% @ 100% linear load			
Voltage Range		304~478Vac (Line-Line) full load; 304 ~ 228Vac (Line-Line) power derate from 100% to 75%			
Frequency range		40Hz~70Hz			
BATTERY					
Voltage		± 240 VDC			
Charging capacity		20%*Pout			
Charge accuracy		± 1%			
BYPASS					
Rate voltage		380/400/415VAC (line to line) 220/230/240VAC (line to neutral)			
Voltage range					
		Range: -40% - +25%, Settable, default -20% ~ +15% 125%, long time operation; 110%, long time operation;			
Overload		125%, long time operation, 125% < load < 130%, 10 mins; 130% < load < 150%, 1 min; > 150%, 300ms	110% < load < 125%, 5 mins; 125% < load < 150%, 1 min; > 150%, 1 second		
INVERTER					
Rate voltage		380/400/415VAC (line to line); 220/230/240VAC (line to neutral)			
Rate frequency		50Hz / 60Hz			
Output power factor		1			
Voltage accuracy		± 1.0%			
Load response		< 5% (20% - 80% -20% step load)			
Recovery time		< 20ms (0% - 100% -0% step load)			
Output THDu		< 1% (linear load), < 5% (non-linear load according to IEC 62040-3)			
Overload		110%, 1 hour; 125%, 10 mins; 150%, 1 min; >150%, 200ms			
Frequency accurancy		0.1%			
Synchronize window		Settable, ±0.5Hz - ±5%Hz, default ±3Hz			
Slew rate		Settable, ±0.5Hz/S - ±3%Hz/S, default ±0.5Hz/S			
Crest Factor		3:1			
Phase accuracy		$120^{\circ} \pm 0.5^{\circ}$			
SYSTEM		·			
Efficiency		Normal mode ≥ 96%; Battery mode ≥96%			
Display		LED + 7 inch touch LCD LED + 10 inch touch LCD			
Certification - Safety		IEC62040-1, IEC60950-1			
Certification - EMS		IEC62040-2, IEC60950-4-2 (ESD); IEC61000-4-3 (RS); IEC61000-4-4 (EFT); IEC61000-4-5 (Surge)			
IP degree		IP20			
Configuration		USB, RS232, RS485, Dry contact, Cold start, Air filter			
Option		SNMP card, AS400 card, Parallel kit, SPD, LBS			
Environment		0-40°C (operation); -25°C ~ 70°C (storage); 0-95% (Humidity, non-condensing)			
Noise (dB) (1 meter)		72dB @ 100% load, 69dB @ 45% load			
Dimension	Cabinet (HxWxD) mm	1600x600x1000	2000x60		2000x1200x1100
	Module (HxWxD) mm				2000/1200/1100
Weight (kg)	Cabinet	185	174x442x659 248 250 578		
	Module	41			

