

MTW MODULAR UPS

25-180kVA

Flexible Configuration

Smart Sleep Function

Graphic LCD Display



GENERAL SPECIFICATIONS

Rack modular design

Modular design, compatible with 19" standard rack cabinet, convenient to be integrated with servers

High power density

25/30kVA (25/30kW) power module in 2U height, saving great amount of space, easy for capacity expansion

Integrated solution for data center

UPS can be integrated with battery cabinet, PDU and external maintenance bypass, offering excellent choice for data center



Intelligent charging management

The system intelligently control the whole process of the charging and discharging, effectively improving the life time of the battery

Flexible configuration

The system can be configured to 3/3, 3/1 and 1/1

Friendly interface

10" touch color LCD with graphic display, more information displayed and easier for customer to operate and IoT function

Smart sleep function

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

Self-aging mode

Energy internal circle technology, system can run with full load ,saving more than 90% energy

TECHNICAL SPECIFICATIONS

MODEL	MTW100/25X1	MTW120/30X1	MTW150/25X1	MTW180/30X1
Capacity	100kVA/100kW	120kVA/120kW	150kVA/150kW	180kVA/180kW
Power module capacity	TPW25 (25kVA/25kW)	TPW30 (30kVA/30kW)	TPW25 (25kVA/25kW)	TPW30 (30kVA/30kW)
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%			
Overload	110%, long time operation; 110% < 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 accuracy	0.1%			
Synchronize window	Settable, ±0.5Hz - ±5%Hz, default ±3Hz			
Slew rate	Settable, ±0.5Hz/S - ±3%Hz/S, default ±0.5Hz/S			
Phase accuracy	120° ± 0.5°			
SYSTEM				
Efficiency	Normal mode ≥ 96%; Battery mode ≥96%			
Display	LED + 7 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			
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)	65dB @ 100% load, 62dB @ 45% load			
Dimension	Cabinet (HxWxD) mm	796x482x816 (18U, wheels not included)		1018x482x816 (23U, wheels not included)
	Module (HxWxD) mm	85x440x678 (2U)		
Weight (kg)	Cabinet	113		132
	Module	23		