



• DATA CENTER •

• TRANSPORT •

• MALLS •

MTW1000 MODULAR UPS

UNINTERRUPTIBLE POWER SUPPLIES

100-1200kVA

3P/3P ONLINE DOUBLE CONVERSION

➔ DSP CONTROL

➔ SMART SLEEP FUNCTION

➔ GRAPHIC LCD DISPLAY



MODULAR UPS



UPS ONLINE



POWER FACTOR



USB

SERVICE / TECH.
SUPPORT

MTW1000 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 100 and 1200kVA 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 maximum capacity of up to 3.2MW. It stands out with its rack type design, high power density, user-friendly interface, 10" inch graphical touchscreen, intelligent sleep function and smart charge management.

COMPACT DESIGN

1200kVA in one cabinet, saving valuable room space

HIGH POWER DENSITY

100kVA power module, easy for capacity expansion

HIGH EFFICIENCY

Advanced 3-level technology guarantees high efficiency operating in double conversion mode up to up to 96.5%; Battery Mode up to 96.5%

INTELLIGENT CHARGING MANAGEMENT

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

HIGH SCALABILITY

The system can be configured from 100kVA to 1200kVA in one single cabinet, Maximum capacity of up to 3.2MW

USER FRIENDLY HMI

10" touch color LCD with graphic display, IoT function1

SMART SLEEP FUNCTION

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

RELIABLE AND ADAPTABLE

Fully digital control, flexible and robust. High reliability and environmental adaptability, with protection of components level.



TECHNICAL SPECIFICATIONS

MODEL	MTW600/100X1	MTW800/100X1	MTW1000/100X1	MTW1200/100X1
Power module	TPW100, 100kVA-100kW			
Capacity	600kVA	800kVA	1000kVA	1200kVA
INPUT				
Phase	3P5W (3P+N+PE)			
Rate voltage	380/400/415VAC (L-L)			
Input power factor	>0.99			
Current distortion	THDi < 2% (100% Linear load)			
Voltage range	304 478VAC(L-L)full load 304 228VAC (L-L) power derate from 100% to 50%			
Frequency range	40~70Hz			
BATTERY				
Rate voltage	3 wires: ±240VDC / 2 wires: 480VDC			
Charging capacity	15%*Pout			
Charge accuracy	±1%			
BYPASS				
Rate voltage	380/400/415VAC (L-L)			
Voltage range	Range: -40% - +25%, Settable, Default -20%~+15%			
Overload	110%, Long Time Operation 110%<load<125%, 5 minutes 125%<load<150%, 1 minute >150%, 1 second			
INVERTER				
Rate voltage	380/400/415VAC (L-L)			
Rate frequency	50/60Hz			
Output power factor	1			
Voltage accuracy	±1.0%			
Output THDu	<1%(linear load),<3% (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-±5Hz default ±3Hz			
Slew rate	Settable 0.5Hz/S-3Hz/S default 0.5Hz/S			
Crest factor	3:1			
Phase accuracy	120°±0.5°			
SYSTEM				
Efficiency	Normal Mode up to 96.5%; Battery Mode up to 96.5%			
Display	LED + 10 inch touch LCD			
Certification- Safety	IEC62040-1, IEC60950-1			
Certification- EMS	IEC62040-2 IEC61000-4-2(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, Top air outlet			
Environment	0-40 (operation) -25 ~70 (storage) 0-95% (Humidity , non-condensing)			
Noise (1 meter)	72dB @ 100% load, 68dB @ 45% load			
PHYSICAL				
Dimension (HxWxD) mm	Cabinet	2000x800x1000		2000x1600x1100
	Module	140x475x705		
Weight (kg)	Cabinet	380	390	624
	Module	47		