

MTW150 MODULAR UPS

UNINTERRUPTIBLE POWER SUPPLIES

10-150kVA

3P/3P, 3P/1P, 1P/1P, ONLINE DOUBLE CONVERSION

➔ FLEXIBLE CONFIGURATION

➔ SMART SLEEP FUNCTION

➔ GRAPHIC LCD DISPLAY



MODULAR UPS



UPS ONLINE



POWER FACTOR



USB



SERVICE / TECH.
SUPPORT



GENERAL SPECIFICATIONS

RACK MODULAR DESIGN

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

FLEXIBLE CONFIGURATION

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

HIGH POWER DENSITY

Extreme high power density, 25kW in 2U, friendly for space and maintenance.

INTELLIGENT CHARGING MANAGEMENT

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

CHARGING FLEXIBILITY

Supports supercharging, Compatible with both Lead acid and Lithium batteries

FRIENDLY INTERFACE

7 inch touch LCD, with IoT functions.

SMART SLEEP FUNCTION

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

HIGHLY RELIABLE AND ADAPTABLE

High reliability and environment adaptability, with protection of components level, also supporting battery connection without Neutral.



TECHNICAL SPECIFICATIONS

MODEL		MTW20/10X1	MTW40/10X1	MTW60/10X1	MTW30/15X1	MTW60/15X1	MTW90/15X1
Rated power		20kVA/20kW	40kVA/40kW	60kVA/60kW	30kVA/40kW	60kVA/80kW	90kVA/120kW
Power module capacity		TPW10			TPW15		
INPUT							
Input		3P+N+PE, L+N+PE					
Rate voltage		3-Phase input: 380/400/415VAC (L-L); 1-Phase input: 220/230/240VAC (L-N)					
Input power factor		> 0.99					
Current distortion		THDi < 2% (100% Linear load)					
Voltage range		3-Phase input: 304 ~ 478VAC (L-L) full load 304 ~ 228VAC (L-L) power derate from 100% to 75% 1-Phase input: 176 ~ 276VAC (L-L) full load 176 ~ 132VAC (L-L) power derate from 100% to 75%					
Frequency range		40-70Hz					
BATTERY							
Rate voltage		20-44 batteries 3 wires (standard) / 2 wires (optional)			32-44 batteries settable 30~32 batteries, UPS PF derate to 0.8 34 batteries, UPS PF derate to 0.9 36~50 batteries, UPS PF is 1.0 3 wires (standard) ± 240VDC / 2 wires (optional) 480VDC		
Charging capacity		Max 100%*Pout (Limited by input current)					
Charge accuracy		± 1%					
BYPASS							
Rate voltage		3-Phase input: 380/400/415VAC (L-L); 1-Phase input: 220/230/240VAC (L-N)					
Voltage range		Range: -40%- +25%, Settable, default -20% +15%					
Frequency range		Settable (±1Hz, ±3Hz, ±5Hz)					
Overload		110% long time operation, 110% <load<125% 5 mins, 125% <load<150%, 1 min, >150% 1 second					
INVERTER							
Rate voltage		3-Phase output: 380/400/415VAC (L-L), 1-Phase output: 220/230/240 (L-N)					
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 THDv		< 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					
Crest factor		3:1					
Phase accuracy		120° ± 0.5°					
SYSTEM							
Efficiency - Normal mode		> 96.5%					
Efficiency - Battery mode		up to 95.3%			up to 95.5%		
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					
Noise (dB) (1 meter)		62dB @ 100% load, 58dB @ 45% load					
Operation temperature		0-40°C					
Humidity		0-95% (non condensing)					
Altitude		<1000m, 1000 ~ 2000m, Power derates 1% every 100m					
Configuration		USB, RS232, RS485, Dry contact, Cold start					
Option		SNMP card, AS400 card, Parallel kit, LBS, Air filter					
Dimension (HxWxD) mm	Cabinet	307x442x711	485x442x711	976x442x660	307x442x711	797x442x660	976x442x660
	Cabinet (Wheels not included)			883x442x660		705x442x660	883x442x660
	Module	86x400x495 (2U)					
Weight (kg)	Cabinet	39	52	88	39	64	88
	Module	12	14	16	12	14	16

TECHNICAL SPECIFICATIONS

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Rated power		40kVA/40kW	80kVA/80kW	120kVA/120kW	50kVA/50kW	100kVA/100kW	150kVA/150kW
Power module capacity		TPW20			TPW25		
INPUT							
Input		3P+N+PE, L+N+PE					
Rate voltage		3-Phase input: 380/400/415VAC (L-L); 1-Phase input: 220/230/240VAC (L-N)					
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