



• DATA CENTER • • TRANSPORT • • MALLS •

# 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	MTW10X1			MTW15X1			
	MTW20/10X1	MTW40/10X1	MTW60/10X1	MTW30/15X1	MTW60/15X1	MTW90/15X1	
Rated power	20kVA	40kVA	60kVA	30kVA	60kVA	90kVA	
Power module capacity	TPW10			TPW15			
<b>INPUT</b>							
Input	3P5W (3P+N+PE), 1P3W (L+N+PE)						
Rate voltage	3-Phase input: 380/400/415VAC (L-L); 1-Phase input: 220/230/240VAC (L-N)						
Rate frequency	50/60Hz						
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						
<b>BATTERY</b>							
Voltage	20-44PCS 3 wires / 2 wires (optional)			32-44PCS 3 wires / 2 wires (optional)			
Charging capacity	Max 100%*Pout ( Limited by input current)						
Charge accuracy	± 1%						
<b>BYPASS</b>							
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%						
Overload	110% long time operation, 110% <load<125% 5 mins, 125% <load<150%, 1 min, >150% 1 second 125% < load < 150%, 1 min; >150%, 1 second						
<b>INVERTER</b>							
Rate voltage	3-Phase input: 380/400/415VAC (L-L); 1-Phase input: 220/230/240VAC (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 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°						
<b>SYSTEM</b>							
Efficiency - Normal mode	> 96.5%						
Efficiency - Battery mode	> 96.5%						
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						
Configuration	USB, RS232, RS485, Dry contact, Cold start						
Option	SNMP card, AS400 card, Parallel kit, LBS, Air filter						
Environment	0-40 (operation) -25 ~70 (storage) 0-95% (Humidity, non-condensing)						
Noise (dB) (1 meter)	65dB @ 100% load, 62dB @ 45% load			65dB @ 100% load, 58dB @ 45% load			
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

MODEL	MTW20X1			MTW25X1			
	MTW40/20X1	MTW80/20X1	MTW120/20X1	MTW50/25X1	MTW100/25X1	MTW150/25X1	
Rated power	40kVA	80kVA	120kVA	50kVA	100kVA	150kVA	
Power module capacity	TPW20			TPW25			
<b>INPUT</b>							
Input	3P5W (3P+N+PE), 1P3W (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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Overload	110%, 1 hour; 125%, 10 mins; 150%, 1 min; >150%, 200ms						
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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°						
<b>SYSTEM</b>							
Efficiency - Normal mode	> 96.5%						
Efficiency - Battery mode	> 96.5%						
Display	LED + 7 inch touch LCD						
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	Cabinet (Wheels not included)		705x442x660	883x442x660		705x442x660	883x442x660
	Module		86x400x495 (2U)				
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	Module	12	14	16	12	14	16