

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						
MODEL													
Rated power		MTW40/20X1	MTW80/20X1	MTW120/20X1	MTW50/25X1	MTW100/25X1	MTW150/25X1						
Power module capacity		40kVA/40kW	80kVA/80kW	120kVA/120kW	50kVA/50kW	100kVA/100kW	150kVA/150kW						
INPUT													
Input		3P+N+PE, L+N+PE											
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