MTW Series

10–300kVA Modular UPS
10-30kVA Power Module



Power range

10~300kVA

Operation

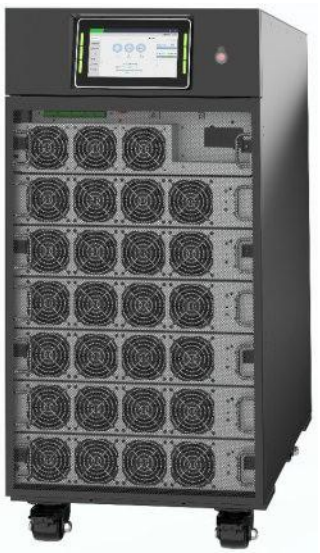
3P/3P,3P/1P,1P/1P, Online double conversion

Applications

Government, Finance, IT, Education, Transportation, Broadcasting, Medical, Energy, etc.









Characteristics

- 7/10 inch touch LCD, with IoT functions.
- Supports 3P/1P,1P/1P flexibility configuration.
- High reliability and environmental adaptability, with protection of components level.
- No disassembly, direct mounted in 19 inch rack, or stand alone.
- Extreme high power density, 30kW in 2U, friendly for space and maintenance.
- Supports supercharging, satisfy high-capacity lithium batteries.

Model		TPW10				TPW20			
		MTW20/10X1	MTW40/10X1	MTW060/10X1	MTW100/10X1	MTW040/20X1	MTW080/20X1	MTW120/20X1	MTW200/20X1
Rate Power		20kVA	40kVA	60kVA	100kVA	40kVA	80kVA	120kVA	200kVA
Main input	Input	3P5W (3P+N+PE)							
	Rate Voltage	380/400/415 VAC (L-L)							
	Rate Freq.	50/60Hz							
	Input PF	>0.99							
	Current distortion	THDi < 2% (100% Linear load)							
	Voltage range	TPW10-25: 304~478 VAC (L-L) full load; 304~228 VAC (L-L) power derate from 100% to 50%							
		TPW30: 324~478 VAC (L-L) full load; 324~228 VAC (L-L) power derate from 100% to 50%							
	Freq. range	40-70Hz							
Battery	Rate voltage	±120 VDC (default 20pcs,20-50pcs selected)				±240 VDC (default 40pcs,30-50pcs selected)			
	Charging capacity	50%*Pout (Limited by input current)							
	Charging accuracy	±1%							
Bypass	Rate voltage	380/400/415 VAC (L-L)							
	Voltage range	Range: -40%- +25% , Settable, default -20% ~ +15% ;							
	Overload	110%, long time operation;110%< load<125%, 10 mins 125%<load<150%,1 min							
Inverter	Rate voltage	380/400/415 VAC (L-L)							
	Rate Freq.	50/60Hz							
	Output PF	1							
	Voltage accuracy	±1.0%							
	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-±5Hz, default ±3Hz							
	Slew rate	Settable, 0.5Hz/S-3Hz/S, default 0.5Hz/S							
	Phase Accuracy	120°±0.5°							
System	Efficiency-normal mode	up to 97%							
	Display	LED + 7 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, Ethernet port							
	Option	SNMP card, AS400 card, SPD, Parallel kit							
	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							
Module	Dimention (W*D*H)mm	400*495*86							
	Weight(kg)	12.65				13.85			

Cabinet		2-Slots	4-Slots(10kVA power module)	4-Slots
		MTW20/10X1; MTW40/20X1; MTW50/25X1	MTW40/10X1	MTW80/20X1; MTW100/25X1, MTW120/30X1
Dimention (W*D*H)mm	Body dimention (Wheels not included)	442*711*307(7U)	442*710*485(11U)	442*661*705(16U)
	MAX dimention	442*751*397	442*751*575	442*841*797
Weight(kg) Cabinet		39	52	64

Model		TPW25				TPW30		
		MTW50/25X1	MTW100/25X1	MTW150/25X1	MTW250/25X1	MTW120/30X1	MTW180/30X1	MTW300/30X1
Rate Power		50kVA	100kVA	150kVA	250kVA	120kVA	180kVA	300kVA
Main input	Input	3P5W (3P+N+PE)						
	Rate Voltage	380/400/415 VAC (L-L)						
	Rate Freq.	50/60Hz						
	Input PF	>0.99						
	Current distortion	THDi < 2%(100% Linear load)						
	Voltage range	TPW10-25: 304~478 VAC (L-L) full load; 304~228 VAC (L-L) power derate from 100% to 50%						
		TPW30: 324~478 VAC (L-L) full load; 324~228 VAC (L-L) power derate from 100% to 50%						
	Freq. range	40-70Hz						
Battery	Rate voltage	±240 VDC (default 40pcs,30-50pcs selected)						
	Charging capacity	50%*Pout (Limited by input current)						
	Charging accuracy	±1%						
Bypass	Rate voltage	380/400/415 VAC (L-L)						
	Voltage range	Range: -40%- +25% , Settable, default -20% ~ +15% ;						
	Overload	110%, long time operation;110%< load<125%, 10 mins 125%<load<150%,1 min						
Inverter	Rate voltage	380/400/415 VAC (L-L)						
	Rate Freq.	50/60Hz						
	Output PF	1						
	Voltage accuracy	±1.0%						
	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-±5Hz，default ±3Hz						
	Slew rate	Settable，0.5Hz/S-3Hz/S，default 0.5Hz/S						
	Phase Accuracy	120°±0.5°						
System	Efficiency-normal mode	up to 97%						
	Display	LED + 7 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, SPD, Parallel kit						
	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						
Module	Dimention (W*D*H)mm	400*495*86						
	Weight(kg)	13.95						
Cabinet		6-Slots				10-Slots		
		MTW60/10X1; MTW120/20X1; MTW150/25X1; MTW180/30X1				MTW100/10X1; MTW200/20X1 MTW250/25X1; MTW300/30X1		
Dimention (W*D*H)mm	Body dimention (Wheels not included)	442*661*906(20U)				600*850*2000		
	MAX dimention	442*841*976						
Weight(kg)	Cabinet	88				143		