

Inverter Control All-in-one Machine

TW-AO-MB51200-10KW-USA
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Long life and safety

Vertical industry integration ensures more than 6000 cycles with 80% DOD.

Easy to install and use

Integrated inverter design, easy to use and quick to install. Small size, minimizing installation time and cost compact and stylish design suitable for your sweet home environment.

Multiple working modes

The inverter has a variety of working modes, whether it is used for main power supply in the area without electricity or backup power supply in the area with unstable power to deal with sudden power failure, the system can respond flexibly.

Fast and flexible charging

A variety of charging methods, which can be charged with photovoltaic or commercial power, or both at the same time.

Scalability

15 units 15kwh/20kwh can be added to the system by parallel connecting to enlarge the capacity



Application scenario >>>



51.2V 400AH BATTERY PACK

BUILT IN 10KW INVERTER

- 200A High Current, 10240W Large Power Output
- Built-in 16S 200A BMS
- 6000+ Long Cycle Life
- No Need Installation



51.2V 300AH BATTERY PACK

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MODEL	TW-AO-MB51200-10KW	TW-AO-MB51300-10KW	TW-AO-MB51400-10KW
BATTERY TECHNICAL SPECIFICATION			
Battery Model	TW-MB51200-200A-HWB	TW-MB51300-200A-HWB	TW-MB51400-200A-HWB
Number of batteries	1	1	1
Battery Energy	10.24kWh	15.36kWh	20.48kWh
Battery Capacity	200AH	300AH	400AH
Weight	131kg	161.5kg	233kg
Dimension L× D× H	600 x 660 x 470	700 ×660 ×470	900 ×600×470
Battery Type	LiFePO4		
Battery Rated Voltage	51.2V		
Battery Working Voltage Rang	44.8 ~ 57.6V		
Maximum Charging Current	200A		
Maximum Discharging Current	200A		
DOD	80%		
Designed Life-span	>6000 Cycles @ 0.2C/25°C Charging/Discharging at 80%DOD,Until 80% Capacity.		
INVERTER TECHNICAL SPECIFICATION			
Inverter Model	TW-ASF48100U200 -H		
PV CHARGE			
Solar Charge Type	MPPT		
Maximum Output Power	5500W+5500W		
PV Charging Current Range	22A+22A		
PV Operating Voltage Range	500Vdc+500Vdc		
MPPT Voltage Range	125 ~425Vdc		
AC CHARGE			
AC Charging Current Range	0~120A		
Frequency Range	50/60Hz		
Input Voltage Range	90~140Vac		
Bypass Overload Current	63A		
AC OUTPUT			
Rated Output Power	10000W		
Max.Peak Power	20000W		
Rated Output Voltage	120/240Vac (split phase/single phase)		
Load Capacity of Motors	1HP		
Rated AC Frequency	50/60Hz		
Waveform	Pure Sine Wave		
Switch Time	10ms (typical)		
Parallel capacity	-		
BATTERY INVERTER OUTPUT			
Rated Output Power	10000W		
Maximum Peak Power	20KVA		
Power Factor	1		
Rated Output Voltage (Vac)	120/240Vac (split phase/single phase)		
Frequency	50Hz ± 0.3Hz/60Hz ± 0.3Hz		
Auto Switch	< 15ms		
THD	< 3%		
GENERAL DATA			
Protection Degree	IP20, indoor only		
Operating Temperature Range	- 15 ~ 55°C , >45°C de rated		
Noise	<60dB		
Cooling Method	Internal Fan		
Warranty	5 Years		
COMMUNICATION			
Embedded Interfaces	RS485 / CAN / USB / Dry contact		
External Modules (Optional)	Wi- Fi / GPRS		
CERTIFICATION	UN38.3,MSDS		
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