



Inverter Control All-in-one Machine



TW-AO-MB51300-AC380V-12KW-EU
TW-AO-MB51400-AC380V-12KW-EU
TW-AO-MB51600-AC380V-12KW-EU

1. Long life and safety

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

2. 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.

3. 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.

4. Fast and flexible charging

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

5. Scalability

Supports 2 output modes of 220V or 380V to meet different needs of users, it also support maximum 6 units in parallel connection

6. APP function

Support PACE EX App control

MODEL	AO-MB51600-AC380V-12KW-EU	AO-MB51400-AC380V-12KW-EU	AO-MB51300-AC380V-12KW-EU
BATTERY TECHNICAL SPECIFICATION			
Battery model	MB51600-300A-WIFI	MB51400-300A-WIFI	MB51300-300A-WIFI
Number of batteries	1		
Battery Energy	30.72kWh	20.48kWh	15.36kWh
Battery Capacity	600AH	400AH	300AH
Weight	238KG	215KG	173KG
Dimension L× D× H (mm)	750*500*845mm	660*500*850mm	660*470*704mm
Battery Type	LiFePO4		
Battery Rated Voltage	51.2V		
Battery Working Voltage Range	44.8 ~ 57.6V		
Maximum Charging Current	300A		
Maximum Discharging Current	300A		
DOD	80%		
Designed Life-span	>6000 Cycles @ 0.2C/25℃ Charging/Discharging at 80%DOD, Until 80% Capacity.		
INVERTER TECHNICAL SPECIFICATION			
Inverter model	SPI-12K-H3P		
PV CHARGE			
Solar Charge Type	MPPT*2		
Maximum Input Power	9000W/9000W		
PV Charging Current Range	22A+22A		
PV Operating Voltage Range	800Vdc/800Vdc		
MPPT Voltage Range	200-650Vdc		
AC CHARGE			
Frequency Range	50/60Hz		
Input Voltage Range	phase voltage 170~280V, line voltage 305~485V		
Bypass Overload Current	35A		
AC OUTPUT			
Rated Output Power	12000W		
Max. Peak Power	24000W		
Rated Output Voltage	230/400Vac (three-phase)		
Load Capacity of Motors	6HP		
Rated AC Frequency	50/60Hz		
Waveform	Pure Sine Wave		
Switch Time	10ms (typical)		
BATTERY INVERTER OUTPUT			
Rated Output Power	12000W		
Maximum Peak Power	24000W		
Power Factor	1		
Rated Output Voltage (Vac)	230/400Vac (three-phase)		
Frequency	50Hz ± 0.3Hz/60Hz ± 0.3Hz		
Auto Switch Period	<15ms		
THD	<3%		
GENERAL DATA			
Protection Degree	IP20, Indoor Only		
Operating Temperature Range	-15~55℃, >45℃ derated		
Noise	<60dB		
Cooling Method	Internal Fan		
COMMUNICATION			
Embedded Interfaces	RS485 / CAN / USB / Dry contact		
External Modules (Optional)	Wi-Fi / GPRS		
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