

Vertical Energy Storage System

AO-MB51150-5KW AO-MB48200-5KW AO-MB48300-5KW AO-MB51200-5KW

F Long life and safety

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

Seasy 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

3 units can be paralleled for 3-phase outputMaximum support for 6 units in parallel



Application scenario >>>





Parameters

	TW-AO-MB51150-5KW(16S)	TW-AO-MB51200-5KW(16S)	TW-AO-MB51300-5KW(16S) TW-AO-MB48300-5KW (15S)
BATTERY TECHNICAL		TW-AO-MB48200-5KW (15S)	TW-AO-IVIB48300-5KW (155)
SPECIFICATION			
Battery model	TW-MB51150-120A-HWB(16S)	TW-MB51200-120A-HWB(16S) TW-MB48200-120A-HWB (15S)	TW-MB51300-120A-HWB(16S) TW-MB48300-120A-HWB (15S)
Number of batteries	1	1	1
Battery Energy	7.68kWh	10.24kWh/9.6kWh	15.36kWh/14.4kWh
Battery Capacity	150AH	200AH	300AH
Weight (Approx.)	91kg	134kg	140kg
Dimension L× D× H	810×520×300	1005×450×300	1005×520×300
Battery Type	LiFePO4		
Battery Rated Voltage	51.2V/48.0V		
Battery Working Voltage	44.8 \sim 57.6V		
Maximum ChargingCurrent	100A		
Maximum Discharging	100A		
DOD Designed Life-span	80%>6000 Cycles @ 0.2C/25 $^{\circ}$ C Charging/Discharging at 80%DOD, Until 80% Capacity.		
INVERTER TECHNICAL			
SPECIFICATION			
INVERTER TECHNICAL		TW-HSI 5000P	
PV CHARGE			
Solar Charge Type	МРРТ		
Maximum Intput Power	5500W		
PV Charging Current	0~100A		
PV Operating Voltage Range	120 [~] 500V		
MPPT Voltage Range	120 [~] 450V		
AC CHARGE			
Maximum ChargePower		3150W	
AC Charging CurrentRange	0 [~] 60A		
Rated Input Voltage	220/230Vac		
Input Voltage Range	(170Vac~280Vac) ±2%/(90Vac-280Vac)±2%		
AC OUTPUT			, .
Rated Output Power		5500W(16S)/5000W(15S)	
Maximum OutputCurrent	22A		
Frequency	50Hz/60Hz		
Overload Current	40A		
BATTERY INVERTER OUTPUT		40A	
Rated Output Power	5500W(16S)/5000W(15S) 11KVA 11KVA 11KVA		
Maximum Peak Power	IIKVA		IIKVA
Power Factor		1	
Rated Output Voltage(Vac)	230Vac		
Frequency	50Hz		
Auto Switch Period	<15ms		
THD		<3%	
GENERAL DATA			
Communication	RS485/CAN/WIFI		
Storage time /temperature	6 months @25℃;3 months @35℃;1 months @45℃;		
Charging temperature range	0°45℃		
Dischargingtemperature rang			
Operation Humidity	5% [~] 85%		
Nominal OperationAltitude	<2000m		
Cooling Mode	Force-Air Cooling		
Noise	60dB(A)		
Ingress Protection Rating	IP20		
RecommendedOperation Env	i Indoor		
Installation Method	Vertical		
Certification	UN38.3, MS	DS,EN55032,EN55024,EN61000 -3-2	2,EN61000-3-3