

# Vertical Energy Storage System

AO-MB51150-5KW

AO-MB48200-5KW AO-MB51200-5KW

AO-MB48300-5KW AO-MB51200-5KW

## 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

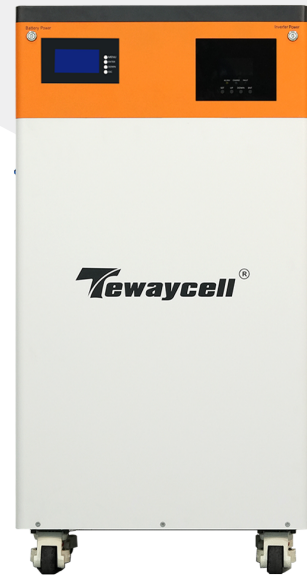
The inverter has a variety of working modes. Whether it is used for main power supply in the area without electricity or backup power supply in the area with unstable power to deal with sudden power failure, the system can respond flexibly.

## 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

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



## Application scenario >>>



# Parameters

	TW-AO-MB51150-5KW(16S)	TW-AO-MB51200-5KW(16S) TW-AO-MB48200-5KW (15S)	TW-AO-MB51300-5KW(16S) TW-AO-MB48300-5KW (15S)
<b>BATTERY TECHNICAL SPECIFICATION</b>			
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 ~ 57.6V		
Maximum Charging Current	100A		
Maximum Discharging	100A		
DOD Designed Life-span	80%>6000 Cycles @ 0.2C/25℃ Charging/Discharging at 80%DOD, Until 80% Capacity.		
<b>INVERTER TECHNICAL SPECIFICATION</b>			
INVERTER TECHNICAL	TW-HSI 5000P		
<b>PV CHARGE</b>			
Solar Charge Type	MPPT		
Maximum Input Power	5500W		
PV Charging Current	0~100A		
PV Operating Voltage Range	120~500V		
MPPT Voltage Range	120~450V		
<b>AC CHARGE</b>			
Maximum Charge Power	3150W		
AC Charging Current Range	0~60A		
Rated Input Voltage	220/230Vac		
Input Voltage Range	(170Vac~280Vac) ±2%/(90Vac-280Vac)±2%		
<b>AC OUTPUT</b>			
Rated Output Power	5500W(16S)/5000W(15S)		
Maximum Output Current	22A		
Frequency	50Hz/60Hz		
Overload Current	40A		
<b>BATTERY INVERTER OUTPUT</b>			
Rated Output Power	5500W(16S)/5000W(15S)		
Maximum Peak Power	11KVA	11KVA	11KVA
Power Factor	1		
Rated Output Voltage(Vac)	230Vac		
Frequency	50Hz		
Auto Switch Period	<15ms		
THD	<3%		
<b>GENERAL DATA</b>			
Communication	RS485/CAN/WIFI		
Storage time /temperature	6 months @25℃;3 months @35℃;1 months @45℃;		
Charging temperature range	0~45℃		
Discharging temperature range	-10~45℃		
Operation Humidity	5% ~ 85%		
Nominal Operation Altitude	<2000m		
Cooling Mode	Force-Air Cooling		
Noise	60dB(A)		
Ingress Protection Rating	IP20		
Recommended Operation Envi	Indoor		
Installation Method	Vertical		
Certification	UN38.3, MSDS, EN55032, EN55024, EN61000 -3-2, EN61000 -3-3		