

# MobileEnergyStorageSystem

## TW-MobileESS Series

AO-MB-48100-5KW AO-MB-51100-5KW

AO-MB-48200-5KW AO-MB-51200-5KW

AO-MB-48300-5KW AO-MB-51300-5KW



### Long life and safety

Vertical industry integration ensures more than 6000+ cycles with 70% 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 >>>



# Product parameters

BATTERY TECHNICAL SPECIFICATION						
Model Number	AO-MB-48100-5KW	AO-MB-51100-5KW	AO-MB-48200-5KW	AO-MB-51200-5KW	AO-MB-48300-5KW	AO-MB-51300-5KW
Number of batteries	1	1	1	1	1	1
Battery Energy	4800Wh	5120Wh	9600Wh	10240Wh	14400Wh	15360Wh
Battery Capacity	100AH	100AH	200AH	200AH	300AH	300AH
Net Weight	85.5kg	88kg	131kg	135kg	161kg	167kg
Dimension L× D× H	1005×350×300	1005×350×300	1005×450×300	1005×450×300	1005×520×300	1005×520×300
Battery Type	LiFePO4					
Battery Rated Voltage	48V	51.2V	48V	51.2V	48V	51.2V
Battery Working Voltage Range	42.0 ~ 54.0V	44.8 ~ 57.6V	42.0 ~ 54.0V	44.8 ~ 57.6V	42.0 ~ 54.0V	44.8 ~ 57.6V
Maximum Charging Current	100A					
Maximum Discharging Current	100A					
Recomend Window	10%-90%					
Designed Life-span	>6000 Cycles @ 0.2C/25°C Charging/Discharging at 50%DOD,Until 70% Capacity.					

INVERTER TECHNICAL SPECIFICATION						
Inverter model	TW-HFP4850S80-145					
PV CHARGE						
Maximum Intput Power	4400W					
Maximum Output Power	4200W					
PV Charging Current Range(can be set)	0~80A					
PV Operating Voltage Range	60~145Vdc					
MPPT Voltage Range	60~115Vdc					
AC CHARGE						
Maximum Charge Power	3150W					
AC Charging Current Range	0~60A					
Rated Input Voltage	220/230Vac					
Selectable Voltage Range	(170Vac~280Vac) ±2%/(90Vac-280Vac)±2%					
AC OUTPUT						
Rated Output Power	5000W					
Maximum Output Current	30A					
Frequency(Pure sine wave)	50Hz/60Hz(Auto detection)					
Maximum bypass overload current	40A					
BATTERY INVERTER OUTPUT						
Peak Power	10000VA					
Rated Output Power	4800W	5000W	4800W	5000W	4800W	5000W
Power Factor	1					
Rated Output Voltage (Vac)	230Vac					
Frequency(Pure sine wave)	50Hz/60Hz(Auto detection)					
Auto Switch Period	10ms typical					
THD	<3%					
GENERAL DATA						
Communication	RS485/CAN/WIFI					
Storage time / temperature	6 months @25°C;3 months @35°C;1 months @45°C;					
Charging temperature range	0~45°C					
Discharging temperature range	-10~45°C					
Operation Humidity	5% ~ 85%					
Nominal Operation Altitude	<2000m					
Cooling Mode	Force-Air Cooling					
Noise	60dB(A)					
Ingress Protection Rating	IP20					
Recommended Operation Environment	Indoor					
Installation Method	Vertical					
Certification	UN38.3,MSDS,EN55032,EN55024,EN61000-3-2,EN61000-3-3					