

5KW Energy Storage System

Technology

FEATURES:

EASY TO INSTALL: All-in-one stacking design, no need to purchase an additional inverter.

Inverter Parallel Supportable: Parallel support up to 6 units-30kw Max. It can be single phase or split phase parallel.

Segmented Charging/Discharging: 3 output modes: mains priority and, battery priority, PV priority; uninterrupted power supply.

Available in 4 charging modes: Only Solar, Mains Priority, Solar Priority and Mains & Solar hybrid charging.

BMS protection: Over-charging/over-discharging protection, charging/discharging over-current protection, short-circuit protection, battery voltage self-balancing, high temperature discharge cut-off.

High capacity and light weight: Small size, easy to move, ideal for outdoor camps and indoor power supply.

Wide range of applications: Suitable for golf carts, off-grid systems and home use.

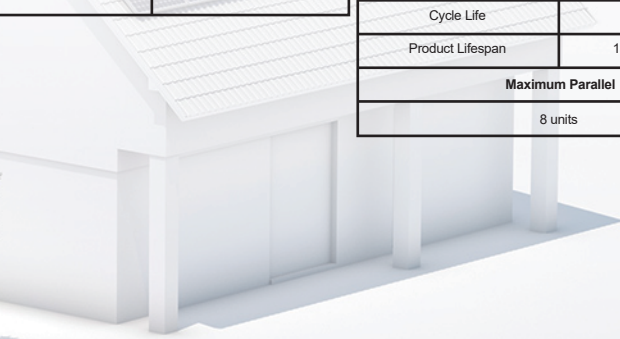
Long life span: Can be recycled up to 6000 times, life span up to 10 years.

Easy to install: Supports wall-mounted, floor-mounted, stacked or rack-mounted installation.

Multi-brand compatible: Compatible with many brands of inverter protocols, can communicate directly with computer.

Capacity expansion: Up to 8 units Battery in parallel, expandable to 40.96kWh.

5KW Energy Storage System	
Solar Hybrid Inverter Model Specification	
Parallel Mode	
Max parallel number (Single or Split Phase)	6 PCs
Invert Mode	
Output Voltage Waveform	Pure Sine Wave
Rated Output Power	5000W
Rated Output Voltage	120VAC
Rated Battery Input Voltage	48V
Min Starting Voltage	44V
Bypass Breaker	63A
Peak Power	10000W
Maximum Efficiency	>92%
AC Charging Mode	
Rated Input Voltage	110/120VAC
Max Charge Current	60A
Efficiency	>95%
PV Charging Mode	
Max Input Power	5000W
Max Charge Current	80A
MPPT Voltage Range	120-450VDC
MPPT Max Tracking Efficiency	>99%
General Data	
Noise	≤60dB
Communication	USB/RS485/Dry contact control
Operating temperature range	-10 °C to 55 °C
Max mixed charging current	100A
Certification	CE(ICE62109-1/2),EN6100,ROHS
Battery Model Specification	
Nominal Voltage	51.2 V
Rated Capacity	100Ah
Absorption Voltage	56.8 to 58.4 V
Float Voltage	56.0 to 56.8 V
Equalize Voltage (if applicable)	56.8 to 58.4 V (same as absorption)
Absorption Time	60 to 120 minutes
Temperature Compensation	No
Charge Cut-off Voltage	58.4 V
Discharge Cut-off Voltage	40 V
Recommended Charge Current	50A
Recommended Discharge Current	50A
Maximum Continuous Charge Current	100A
Maximum Continuous Discharge Current	100A
Peak Discharge Current	120A
Bluetooth connection	Optional
Self Heating	No
IP Standard	IP30
Communication	CAN/RS485/RS232
Switch	Yes
BMS Protection	Charging Overcurrent Short circuit High/Low temperature
Internal Resistance	≤30mΩ
BMS Leakage Current	≤3mA
Operating Temperature Charge	32°F (0°C) to 131°F (55°C)
Operating Temperature Discharge	-4°F (-20°C) to 131°F (55°C)
Storage Temperature 1 week	-4°F (-20°C) to 149°F (65°C)
Storage Temperature 1 month	-4°F (-20°C) to 113°F (40°C)
Storage Temperature 1 year	-4°F (-20°C) to 77°F (25°C)
Humidity Operating	5% to 90 % RH
Humidity Storage	35% to 85% RH
Certifications UN 38.3; CE	
Cycle Life	6000 cycles
Product Lifespan	10-year (Prorated)
Maximum Parallel	
8 units	



Unit Dimensions



Mechanical

Inverter and one Battery	
Length	23.62 in / 600 mm
Width	17.72 in / 450 mm
Height	17.52 in / 445 mm
Weight	154.32 lbs / 70kg
One Battery	
Length	23.62 in / 600 mm
Width	17.72 in / 450 mm
Height	8.52 in / 216.5mm
Weight	110.23 lbs / 50kg
Terminals	M8 insert

Materials

Case and Cover	METAL
Color	BLACK

PLEASE NOTE

Lithium batteries ship under Class 9 Dangerous Goods PI 965 Section IA, Please contact your carrier company to determine their requirements for shipping. MSDS Sheets are available upon request

