



The battery of the future



LiFePO4 Battery 5.12KWH

Inverter Off Grid 3.2KW/5KW

Residential Energy Storage System

Utilizing clean energy efficiently to keep the earth infinitely green

Introduction

For off-grid energy storage

KEY FEATURES

- Night, this will charge on low tariff and morning discharge when peak rates. Save 50% energy bill.
- LiFePO₄ composition – provides exceptional safety and longevity.
- High energy density – The capacity of a single cabinet up to 5kWh.
- Integrated advanced BMS with multiple protection functions.
- Easy installation, floor mounted.
- 5 Years warranty for Battery, 3 years warranty for the inverter.
- Consistent performance over a wide temperature range.
- Cycle efficiency up to 98%.
- If the PV function stops on rainy or cloudy days, ESS will be charged by the grid during tonight (peak off tariff) and release energy during the day automatically or by setting the charge time from the inverter.
- 15 years calendar life, 6000 times cycles, @ 80% DOD, 25°C, 0.2C charge & discharge
- Support 100% DOD.
- LCD display screen / Mobile APP for the monitoring system.

OPERATION MODE

- Under the condition of good illumination in the daytime, the DC power from PV panel is changed into AC through an inverter to supply power for the residential load. If the residential load cannot run out of PV power, the remaining power will be stored in the battery.
- In night or on rainy days, photovoltaics cannot generate electricity. The battery supplies power to the home load through an inverter. If the battery is low, the residential load will take power from the grid.
- When the power grid fails, the energy storage system can be used as a backup power to supply power for critical loads.



DATA SHEET

PARAMETERS	PowerStation- 5kWh
Electrical	
Nominal Voltage (V)	51.2
Nominal Capacity (Ah)	100
Nominal Energy (kWh)	5.12
Operating Voltage Range (V)	40~58.4
Standard Charging Current (A)	100
Standard Discharging Current (A)	100
Max. Continues Output power (kW)	5
Protection	
Over Charge	✓
Over Discharge	✓
Over Current	✓
Reverse Connection	✓
Short Circuit	✓
Temperature	✓
Physical	
Dimensions (WDH, mm)	710*300*670mm
Weight (kg)	80
Inverter	
Power	3200W(Pure Sine wave)
Solar Panel Input Spec.	120V~450VDC, ≤2500W
Charging Temperature(°C)	0~55
Discharging Temperature(°C)	-20~55
AC Output	230V AC, 50/60HZ
Cycle Life (times)	6000 @80% DOD, 25°C
Certification	to be announced
Transfer time	≤10ms typical (UPS); 20ms typical (Appliances)
Monitor	LCD display screen, APP Monitoring

