

SUNWAY WALL MOUNTED LITHIUM BATTERY

—51.2V102AH 5.22KWH / 51.2V204AH 10.44KWH



★ MAIN FEATURES

- Reduce floor space, wall-mounted installation (PowerWall). Wall mounted or floor mounted can be freely selected
- LFP rechargeable battery A+ Grade cell
- Good compatibility, standard communication protocol. CAN and RS485, compatible with most popular hybrid and off grid inverters in the market
- Extramly long life cycle, more than 6000 times or 10 years
- High protection measures, built-in Aerosol active fire protection module, thermal runaway detection and active fire protection
- Good extendibility



★ PRODUCT SIZE



★ SPECIFICATION

| Models | SW51B100TW2 | SW51B200TW2 |
|----------------------------------|---------------------------------------|---------------|
| Usable Capacity | 5.22kWh | 10.44kWh |
| Normal Capacity | 102Ah | 204Ah |
| Voltage | 51.2V | |
| Discharge Voltage Range | 43.2V~57.6V | 43.2V~57.6V |
| RateCharging/Discharging Current | 75A | 80A |
| Max. Output Power | 3840W | 4096W |
| Rated Output Power | 3840W | 4096W |
| DOD | 90% | |
| Modules Connection | Support 1-15 in parallel | |
| Communication | CAN/RS485 | |
| Cycle Life | ≥6000 | |
| Working Temp. Range | Charge: 0℃~+55℃; Discharge: -10℃~+55℃ | |
| Storage Temperature | -10℃~+35℃ | |
| Net Weight | 48.5kg | 94kg |
| Gross Weight | 52.5kg | 125kg |
| Product Dimension | 420*163*700mm | 570*203*850mm |
| Design Life | 15years | |
| Features | HD touch screen, active balance | |
| Certification | CE MSDS IEC EMC UN38.3 | |

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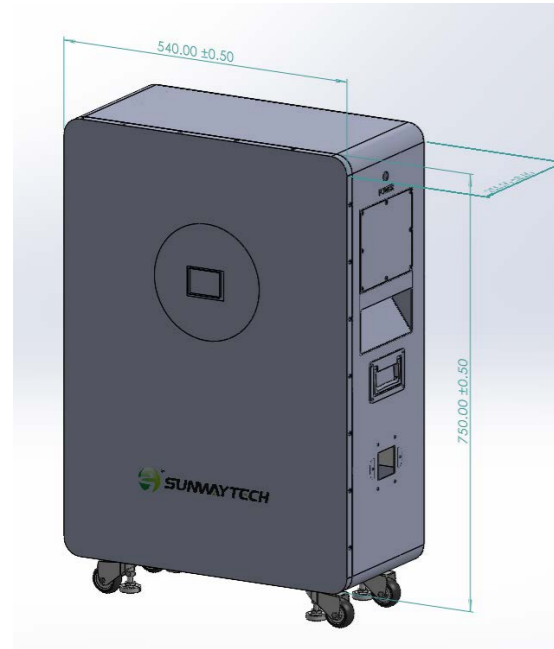
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Building 7, E-Commerce Supervision Zone, Huguang Road, Hefei, Anhui, China



51.2V280AH 14.33KWH LITHIUM BATTERY

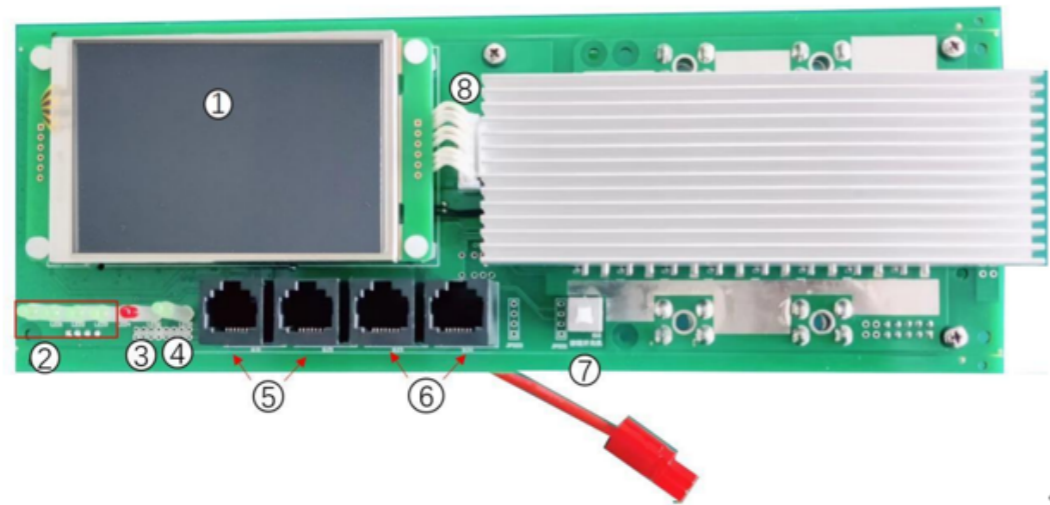
Lithium iron phosphate battery system is a standard battery system unit, customers can choose a certain number of lithium battery according to their needs, by connecting parallel to form a larger capacity battery pack, to meet the user's long-term power supply needs. The product is especially suitable for energy storage applications with high operating temperatures, limited installation space, long power backup time and long service life.



★ MAIN FEATURES

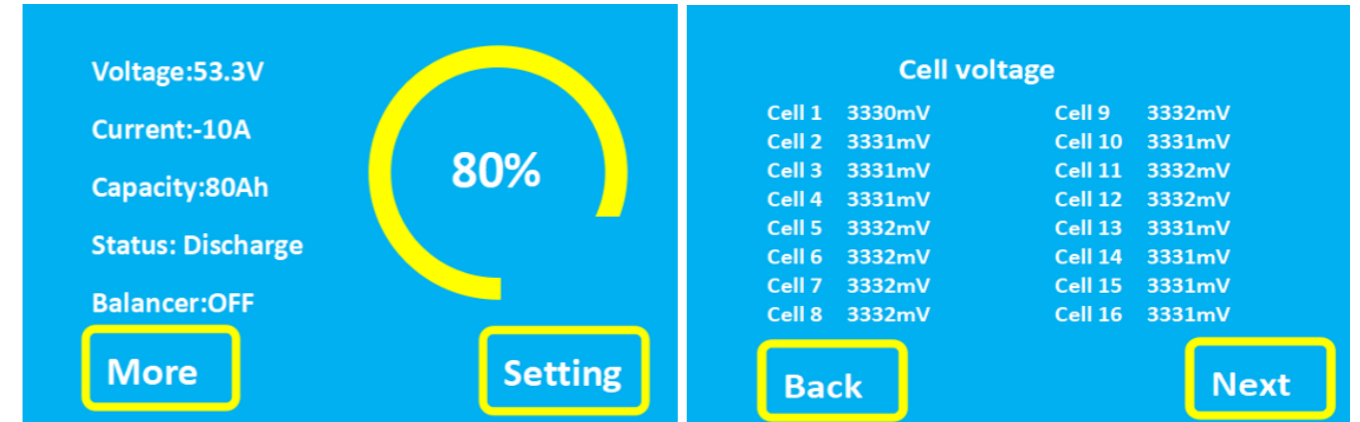
- The whole module is non-toxic, non-polluting and environmentally friendly
- Safety performance and long cycle life
- Battery management system with better performance, possesses protection function like over-discharge, over-charge, over-current, abnormal temperature
- Self-management on charging and discharging, Single core balancing function.
- Intelligent design configures integrated inspection module
- Flexible configurations allow parallel of multi battery for longer standby time
- Less battery self-discharge, then recharging period can be up to 10 months during the storage.

★ BMS Board introduction



- 1. Touch display ←
- 2. Capacity indicator ←
- 3. Alarm LED ←
- 4. RUN indicator ←
- 5. CAN port ←
- 6. RS485 port ←
- 7. ON/OFF ←
- 8. Display interface module ←

★ SCREEN INTERFACE INSTRUCTION



★ PERFORMANCE PARAMETER

| Models | SW51B300TW2 |
|---|-----------------------|
| Nominal Voltage (V) | 51.2V |
| Nominal Capacity (AH) | 280AH |
| Nominal Capacity (WH) | 14336WH |
| Usable Capacity (WH) | 12902.4WH |
| Discharge Voltage (V) | 48.5V |
| Charge Voltage (V) | 55V |
| Recommend Charge/ Discharge Current (A) | 140A |
| Max. Charge/ Discharge Current(A) | 200A |
| Communication | RS485/CAN |
| Working Temperature | -20°C ~70°C(25°C) |
| Storage Temperature | -40°C ~85°C(25°C) |
| Humidity | 10%-85% |
| Certification | CE/ IEC/ UN38.3/ MSDS |
| Design Life | 10 years+ |
| Cycle Life | >6000@90%DOD |
| Dimension | 650*450*250mm |
| Weight(Kg) | 115Kg |

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★ LOW VOLTAGE STACKED LITHIUM BATTERY+5kwPCS

This battery adopts modular design, including power module and battery expansion module, so it can be easily combined into any capacity system required by users. The energy storage module adopts high performance and long life lithium iron phosphate battery. Meanwhile, each module consists of 16 100Ah cells connected in series into a 51.2v voltage battery module. Two to fifteen modules can be connected in parallel to expand the capacity and power of the energy storage system. A modular structural design was used. Each energy storage module is integrated with a BMS system, which can be easily expanded and combined with up to 75kwh battery pack. Compatible with 5kw PCS with AC output 1phase 120v or 220v.

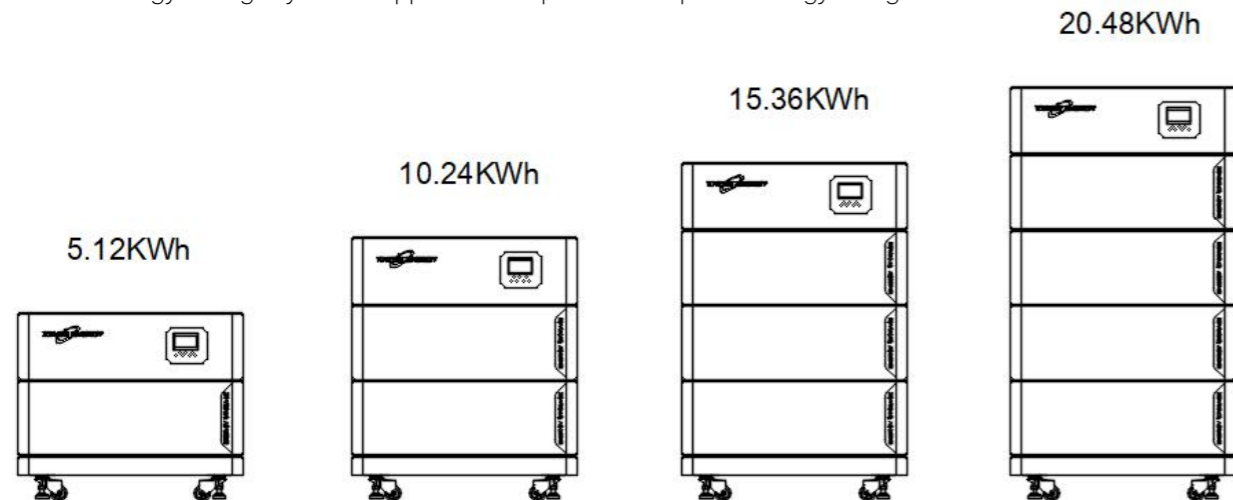


★ MAIN FEATURES

- The power module adopts a new topological circuit design
- High control accuracy, small volume
- The mains charging module adopts advanced control algorithm to realize full digital double closed-loop control of voltage and current
- AC voltage input range is wide, the input and output protection function is complete, can achieve stable and reliable battery charging and protection
- Suitable for household appliances, power tools and other AC loads
- The inverter module is based on full digital intelligent design, adopts advanced SPWM technology

★ DESCRIPTION OF ENERGY STORAGE CAPACITY

This series of energy storage systems supports the expansion of up to 4 energystorage modules.



★ PERFORMANCE PARAMETER

| Models | SW51C100 | | | |
|---|---------------------------------|----------|----------|----------|
| Single Module Capacity | 5.12kwh | | | |
| Module Number | 1 | 2 | 3 | 4 |
| Rated Capacity | 5.12kwh | 10.24kwh | 15.36kwh | 20.48kwh |
| Nominal Voltage | 51.2V | | | |
| Working Voltage | 44V-58.4V | | | |
| Nominal Discharging Current | 100A | 200A | 300A | 400A |
| Nominal Charging Current | 50A | 100A | 150A | 200A |
| Recommended Discharge Level | 80% | | | |
| Humidity | 20%-60% | | | |
| Installation Method | Stacked mode | | | |
| Protection Level | IP20 | | | |
| Communication Protocol | CAN/RS485/RS232 (WIFI Optional) | | | |
| Dimension/module | 600*440*200mm | | | |
| Net Weight/module | 40kg | | | |
| Battery Pack Parameters | | | | |
| Cell Type | LFP | | | |
| Battery Rated Input Voltage | 51.2VDC | | | |
| Hybrid Charging Maximum Charging Current | 80A | | | |
| Battery Pack Voltage Range | 40VDC-60VDC | | | |
| Photovoltaic Input Parameters | | | | |
| Maximum PV Open Circuit Voltage | 500VDC | | | |
| PV Working Voltage Range | 120V-500VDC | | | |
| MPPT Voltage Range | 120V-450VDC | | | |
| Maximum PV Input Current | 16A | | | |
| Maximum PV Input Power | 5500W | | | |
| Maximum PV Charging Current | 100A | | | |
| AC parameters (Grid-connected side) | | | | |
| Maximum Charging Current | 60A | | | |
| Rated Input Voltage | 220V/230VAC | | | |
| Input Voltage Range | 170VAC-280VAC | | | |
| Frequency | 50Hz/60Hz | | | |
| Charging Efficiency | >95% | | | |
| Switching Time | 10ms | | | |
| Maximum Bypass Overload Current | 40A | | | |
| AC output parameters (Grid-connected side) | | | | |
| Output Voltage Waveform | Pure sine wave | | | |
| Rated Output Voltage | 230VAC±5% | | | |
| Rated Output Power | 5000W | | | |
| Peak Power | 10000VA | | | |

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RACK MOUNTED HOUSEHOLD ENERGY STORAGE SYSTEM

——51.2V100AH / 51.2V200AH

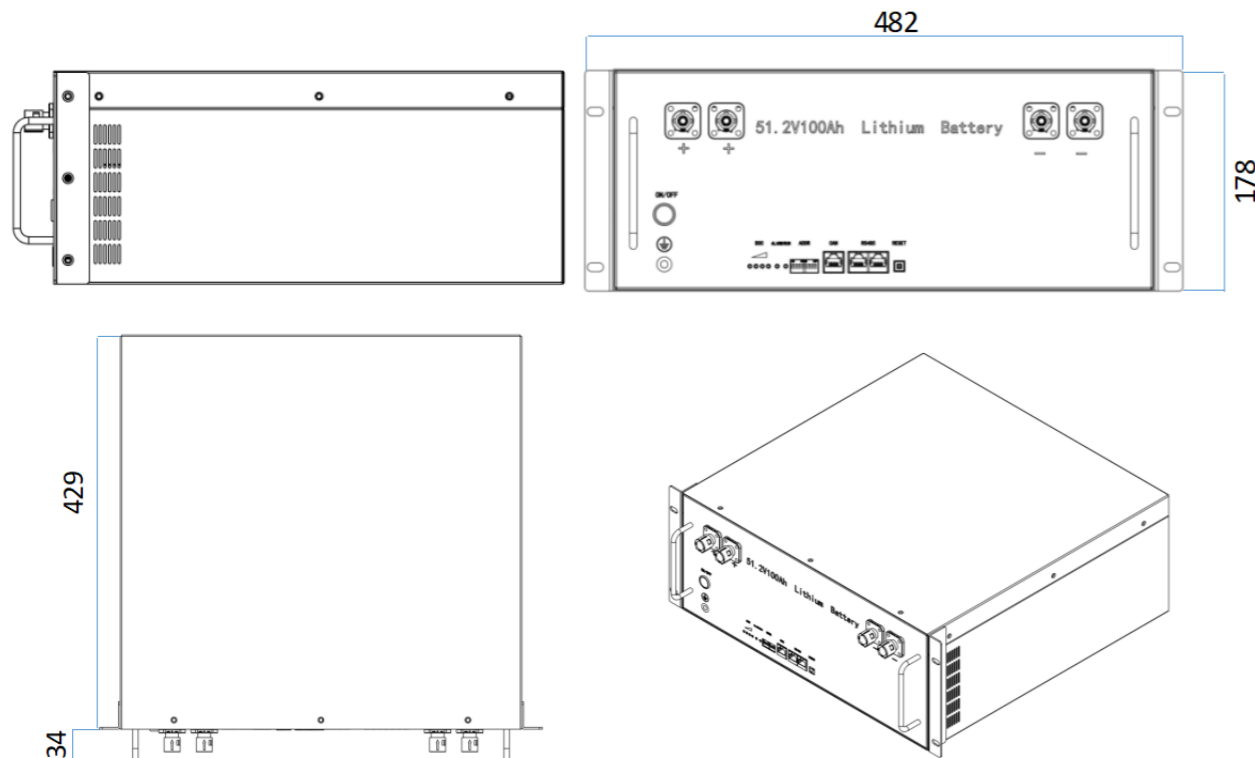
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★ MAIN FEATURES

- The whole module is non-toxic, non-polluting and environmentally friendly;
- Cathode material is made from LiFePO4 with safety performance and long cycle life
- Battery management system with better performance, possesses protection function like over-discharge, over-charge, over-current, abnormal temperature.
- Self-management on charging and discharging, Single core balancing function.
- Intelligent design configures integrated inspection module.
- Flexible configuration, multiple battery modules can be in parallel for expanding capacity and power.
- Flexible configurations allow parallel of multi battery for longer standby time

★ PRODUCT SPECIFICATION



★ PERFORMANCE PARAMETER

| Models | SW51R100T | SW51R200T |
|--|-------------------------------------|------------------|
| Battery Type | LFP | |
| Nominal Voltage(V) | 51.2V | |
| Nominal Capacity(WH) | 5120WH | 10240WH |
| Usable Capacity(WH) | 4096WH | 8192WH |
| Design Life | ≥10Years(25°C/77F) | |
| Physical | | |
| Dimension | 482*177.8*442mm | 480*422*400mm |
| Weight(kg) | 45kg | 110kg |
| Electrical | | |
| Cycle Life | >6000,25°C | |
| Discharge Voltage(V) | 40~58.4 | |
| Charge Voltage(V) | 56~58.4 | |
| Charge/Discharge Current(A) | 50A(Recommended) | 60A(Recommended) |
| | 100A(Max) | |
| BMS | | |
| Power Consumption | <2W(Work), <100mW(Sleep) | |
| Monitoring Parameters | Systemvoltage,Current, Cell Voltage | |
| | Cell Temperature,Module Temperature | |
| SOC | Intelligent algorithm | |
| Communication | CAN/RS485 | |
| Operation | | |
| Operating Temperature Range | -10°C~50°C | |
| Transport or Storage Temperature Range | -20°C~45°C | |
| Humidity | 15%~85%(No Condensing) | |

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