AMOSOLAR Smart Energy Storage Battery

48V 100AH 4800WH

Scalable

Use of parallel connection; from 2 to 10 modules

Compatible

Compatible with multiple inverters; Multiple communication interfaces RS232, RS485, CAN

Convenient

Wall mounted&compact design, ease of installation

Safe

Multiple protection LiFePO4 material, safe and long life

Compliant

Ip21 Protection, indoor application

Amosolar LFP-Powerwall box, a Low-voltage **lithium battery.** With a scalable modular design, the capacity range can be expanded from 4.8kWh to 48kWh. The modules are connected by cables to support high-power work and are easy to install and maintain. Long life technology ensures more than 6000 cycles with 90% DOD.

With rich experience and advanced techniques, the product has the features of the fashionable design, high energy, high power density, long service life. Easiness of installation and expansion, all of which reflect the real requirements of the end users and strongest technical capability of our company.

Comprehensive Products and System Certificates

MSDS UN38.3

UL1642, IEC62619, CE, UN38.3,MSDS.

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PERFORMANCE SPECIFICATIONS	
Nominal Voltage	48V
Cell model/Configuration	3.2V 100Ah(ANC)/15S1P
Capacity(Ah)	100AH
Rated Energy (KWH)	4.8KWH
Usable Energy(KWH)	4.32KWH
Max.Charge/Discharge Current(A)	100A/100A
Voltage Range (Vdc)	42-54V
Scalability	Up to 10 parallel
Communication	RS232-PC,RS485(B)-BATRS485(A)-Inverter,Canbus-Inverter
Cycle Life	≥6000cycles@25℃，90%DOD，60%EOL
Design Life	≥10 Years (25℃)
MECHANICAL SPECIFICATIONS	
Weight(Approx) (KG)	63kg
Dimension(W/D/H)(mm)	485*690*186(226 Including hanger) mm
Installation Mode	Wall hanging
IPGrade	IP21
SECURITY AND CERTIFICATION	
Safety(Pack)	UN38.3,MSDS
Safety(Cell)	UN38.3,MSDS,IEC62619,CE,UL1973,UL2054
Protection	BMS, Breaker
ENVIRONMENTAL SPECIFICATIONS	
Operating Temperature(C)	Charge:-10°C~50℃; Discharge: -20°C-50°℃
Altitude (m)	≤2000
Humidity	≤95%(Non-condensing)

*Text and images correspond to the current state of technology at the time of printing. Subject to modifications.
All information is without guarantee in spite of careful editing-liability excluded.

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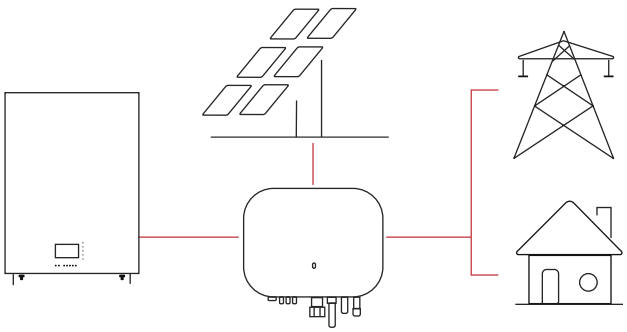
Schematic Diagram of Solution



- High security technology ensures stable and excellent perfor-mance.
- Compatible with multiple inverters including KSTAR DEYE GOODWE Solis Growatt Voltronic....
- It provides highly efficient energy solutions for household scenarios and small commercial scenarios.

Trouble Shooting Steps

Problem determination based on: 1) Whether the battery can be turned on.2) If battery is turmed on, check the red light is off, fiashing or lighting;3) If the red light is off, check whether the battery can be charged/discharged.

Preliminary determination steps:1)Battery cannot be turned on, switch on the lights are all no lighting or flashing. If the battery extemal switch is ON, the RUN light is flashing, and the external power supply voltage is 48 vor more, the battery still unable to turn on, please contact distributor.

- The battery can be tumed on, but red light is lighting, and cannot be charged or discharged , red light is lighting, that means system is abnormal, please check values as following.

-Temperature: Above 50℃ or under-10℃, the battery could not work.Solution: to move battery to the norma operating temperature range between-10℃ and 50℃.4) Current: If current is larger than 100A, battery protection will turn on.Solution: Check whether current is too large or not, if it is, to change the settings on power supplyside.

- High Voltage: If charging voltage above 58.4V battery protection will turn on. Solution: Check whether voltage is too high or not, if it is, to change the settings on power supply side 6)Low Voltage: When the battery discharges to 40V or less, battery protection will turn on.Solution:Charge the battery for some time, the red light will turn off.Excluding the four points above , if the faulty is still canot be located, turm offi battery and repair.

- The battery cannot be charged or discharged1) Cannot be chargedDisconnect the power cables measure voltage on power side if the voltage is 56.5-57.6V restanthe battery. connect the power cablle tn dicrhaye:Disconnect the oower battery and contact distributor.2) Unable to discharge:Disconnect the oower cables and measure voltage on battery side. if it is under 40v.please charge the battery: if voltage is above 48V and still canot discharge, turm off battery and contact . Emergency Situations

Emergency Situations

- Leaking Batteries If the battery pack leaks electrolyte, avoid contact with the leaking liquid or gas. If one is exposed to the leaked substance, immediately perfom the actions described below Inhalation:Evacuate the contaminated area, and seek medical attentionContact with eyes: Rinse eyes with flowing water for 15 minutes, and seek medical attention.Contact with skin: Wash the affected area thoroughly with soap and water, and seek medicalattention.Ingestion: Induce vomiting, and seek medical attention.

- Fire NO WATER! Only dry powder fire extinguisher can be used; it possible, move the battery pacf to a safe area before it catches fire.

- Wet Batteriesif the battery pack is wet or submerged in water do not let people access it, and then contact or an authorized dealer for technical support.

- Damaged Batteries are dangerous and must be handled with the utmost care.They are not fit for use and may pose a danger to people or property.If the battery pack seems to be damaged pack it in its original container, and thenretum it to or an authorized dealer.NOTE Damaged batteries may leak electrolyte orproduce flammable gas. If such damage occurs, please contact AMOSOLAR.