



# 51.2V 280AH Battery Pack

LiFePO4 BATTERY



## PRODUCT OVERVIEW



This product belongs to one of our self-designed and developed household energy storage product series. It is used for energy storage and energy supply of household, commercial, UPS and other electrical equipment.

This product enjoys many merits: long cycle life, high safety standard from software protection to strong housing, exquisite looks, and easy installation, etc. It is widely used in energy storage system with off-grid inverters, grid-connected inverters and hybrid inverters.

## PRODUCT OVERVIEW



### BUILT IN BMS

Built-in BMS intelligent security protection system, Protect the battery, Extend battery life. Six layers of intelligent safe typrotection, when the battery voltage and current reach the value set by BMS, The battery will enter the protection state.

### SAFETY

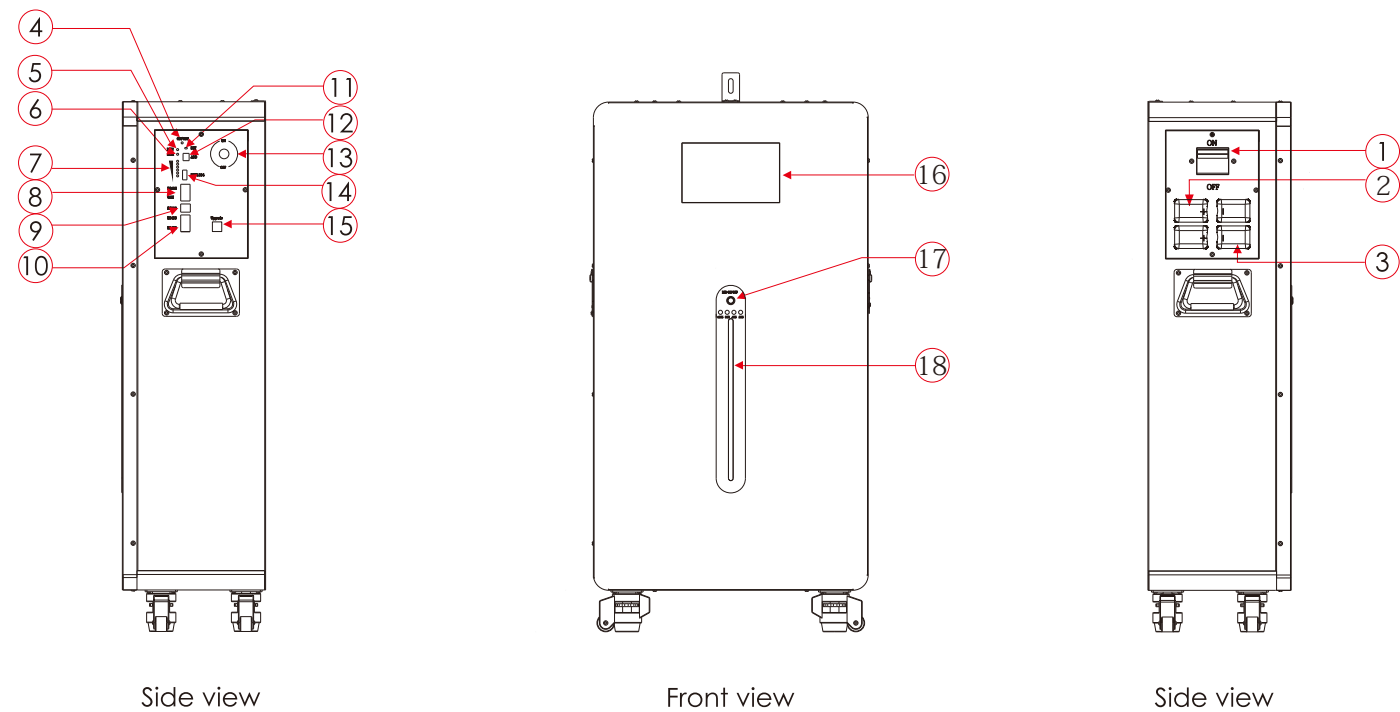
National high-tech enterprise, home intelligent energy management, safe, efficient and green energy

### LONG LIFE

Designed for 15-20 years, over 6000 cycles

Overall, mobile home energy storage lithium battery has good performance and high value in mobile home energy storage system, which can improve the power quality, reliability and efficiency of mobile home energy storage system, and reduce the power loss and maintenance cost of the whole system. Therefore, it is widely used in mobile home energy storage system.

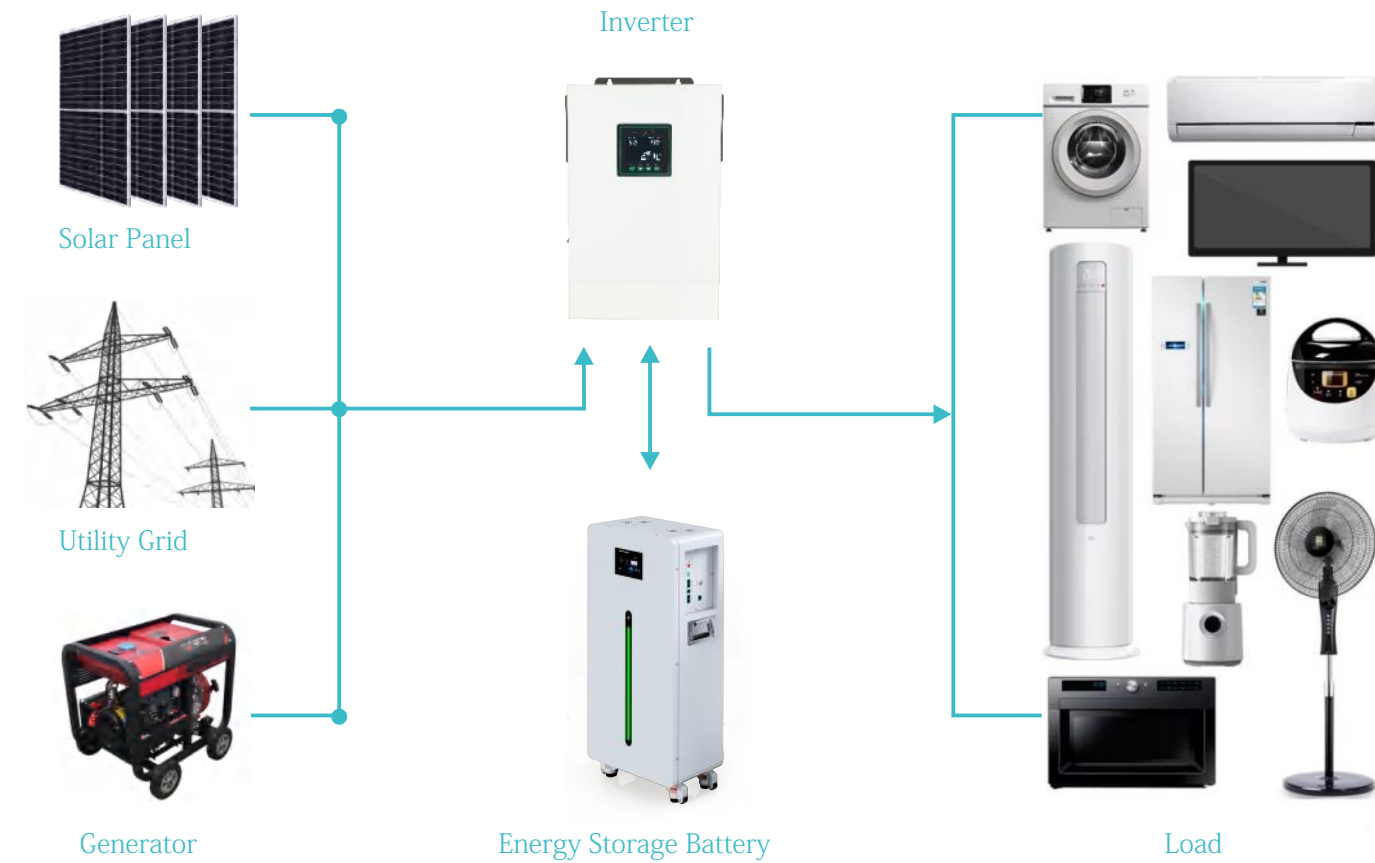
PANEL INDICATION



1	Air switch	6	ALM indicator	11	Reset button	16	Display screen
2	Port Positive *2	7	Power indicator light	12	Dial code	17	LED Switch
3	Port Negative *2	8	RS485 port and CAN port	13	Switch	18	Battery level display
4	On/off LED indicator	9	RS232 interface	14	dry contact		
5	“RUN” indicator	10	RS485 Parallel communication port*2	15	The screen is upgraded to the network port		

## CONNECTION DIAGRAM

Solve The Problem Of No Electricity In Your Home



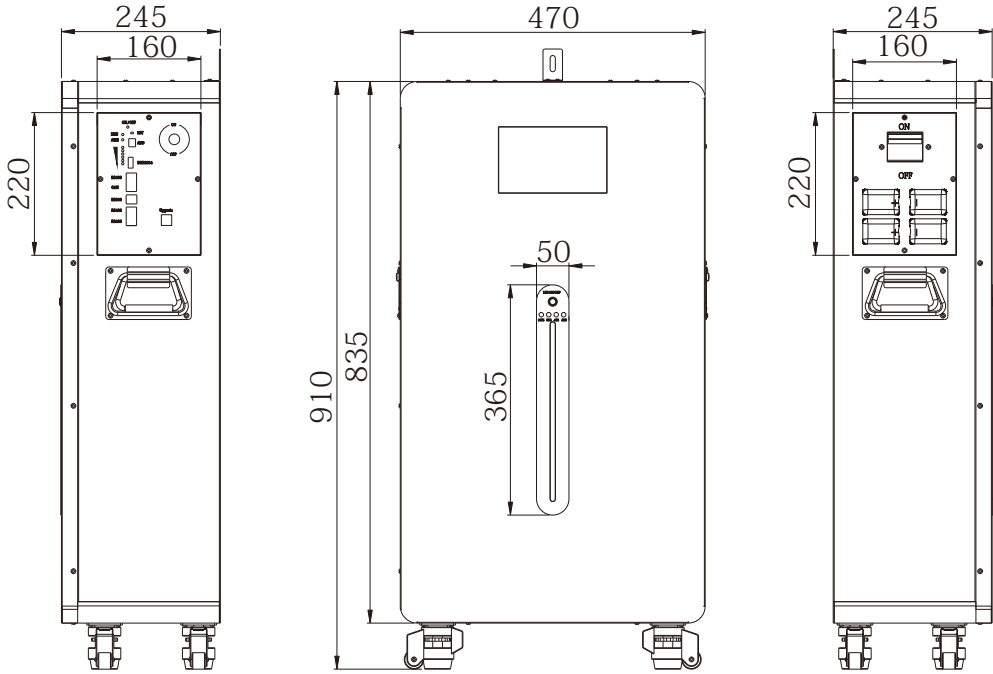


PRODUCT SPECIFICATION

Model	ALF52280-01
Battery Type	LiFePO4
Nominal Voltage	51.2V
Nominal Capacity	280Ah
Charging Cut-off Voltage	58.4V
Discharging Cut-off Voltage	44.8V
Max. Cont. Charging/Discharging Current (30s)	300A/300A
Continuous charge/discharge current	140A
Max. Number Of Parallel	6 sets
Cycle Life	≥6000
Product Size	470*245*910mm
Weight	120kg
Warranty	5 years

PACKAGING SPECIFICATION

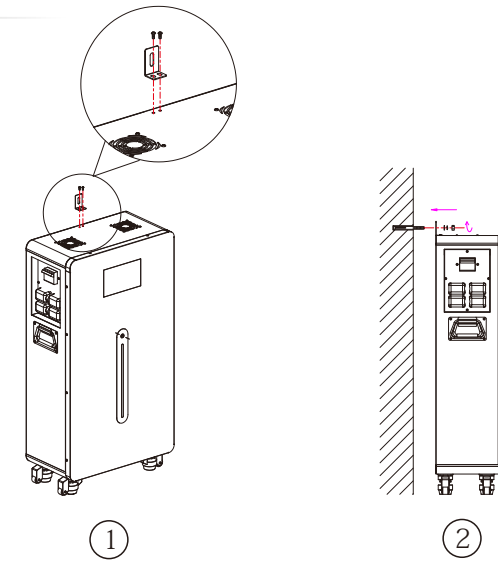
P/N	Capacity	Packing Size(CM)			PCS/CTN	CBM/CTN	G.W/CTN(KGS)
		L	W	H			
ALF52280-01	51.2V 280AH	97.00	53.50	40.00	1	0.2076	134.00



## INSTALLATION AND OPERATION

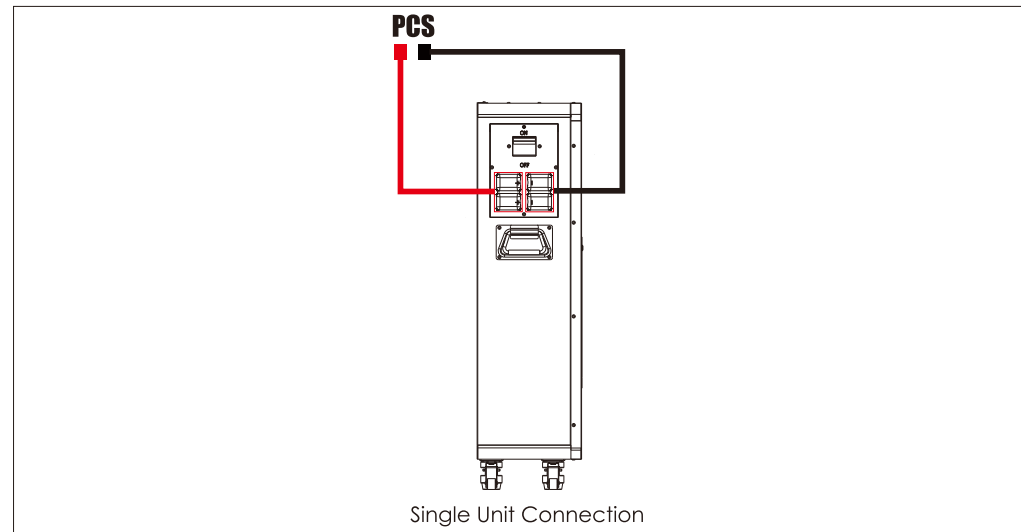
### Installation Guide

- Make sure the lithium battery's positive and negative electrode are connected correctly to the load/appliance.
- Please charge the battery to full before putting in service, using an appropriate charger.
- It is advisable to protect the battery with a fuse.
- Do not connect the battery in series or parallel with other batteries if not specifically indicated in the datasheet.

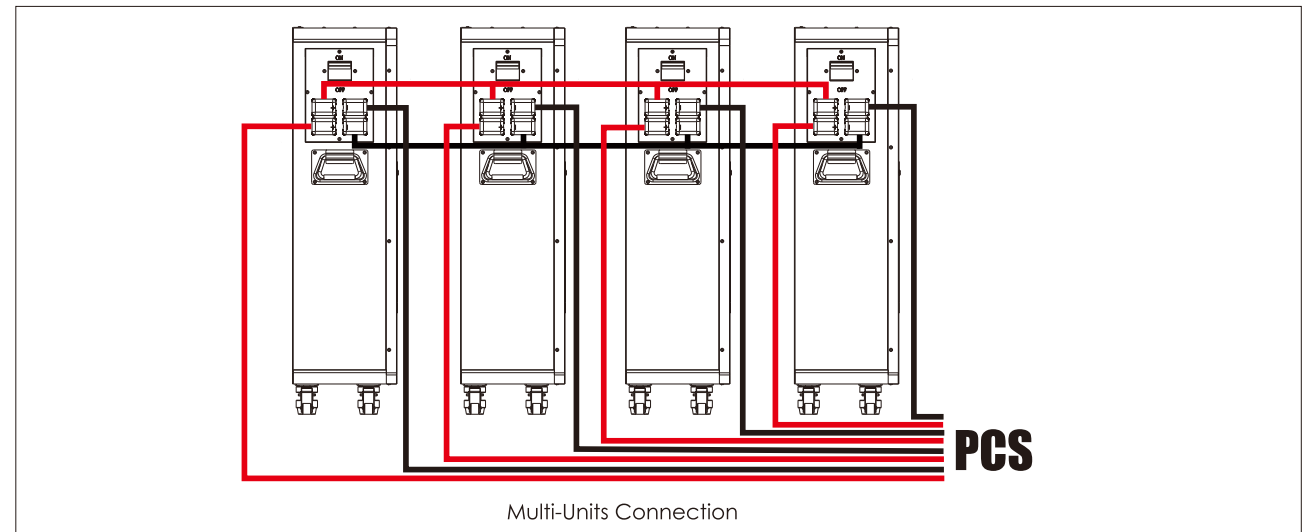


### DC Cable Connection

#### 1. Single Unit



#### 2. Multi-Units in Parallel (4 sets as an example) Max. Number Of Parallel: 6 Sets



Master Pack and Slave Pack can be used as single unit as well as multi-units (in parallel) mode.

The customer must inform supplier if multi-units mode is required.

## APPLICATION



## NOTES

- Installation and commissioning should be operated by professional electrical personnel.
- Do not penetrate hands or other items deep into the product.
- Please do not open the product without the presence of a professional.
- Do not mechanically damage the battery module of the energy storage cabinet (perforation, deformation, peeling, etc.).
- Use a dry chemical fire extinguisher as a fire extinguishing agent.
- Do not allow the storage cabinet battery module to come into contact with abnormal metal or conductors.
- Do not use this product after a short circuit.
- Do not expose the energy storage cabinet to flammable, hazardous chemicals or steam.