Residential energy storage Battery (wall-mounted) LFELI-48100

Product Introduction

LFeLi-48100 is an energy storage module based on a home wall-mounteddesign. The system uses distributed photovoltaic and wind power generationto provide a household power supply solution . It can effectively realizeenergy transformation and storage, solve the imbalance between distributedgeneration and load, improve the stability and utilization rate of renewableenergy generation, realize "spontaneous self-use" at the user end, and saveelectricity costs. The system uses high-efficiency and long-life lithium ironphosphate batteries, and the excellent battery management system canensure its Design life of more than 15 years.

Characteristics

- High energy density and conversion efficiency
- Intelligent software anti-theft design
- Compatible with many inverters
- Easy maintenance with SOC (charge status) and SOH (health status)detection



Specification

	Items	Parameters
	Specifications and models	LFeLi-48100
	Nominal voltage	51.2V(43.2V-57.6V) [16Cells]
	Nominal capacity	100Ah(5120W) @ 0.5C, 25°C
	Maximum continuous charge/ discharge current	100A/100A @ 25°C
	Recommended charge setting	In the constant current stage, the charging voltage is cut off to 56.4V; Float charge constant voltage stage, the voltage is set to 54.5V; Cut-off voltage 56.4V, plus or minus 0.5V
	Weight	45.6kg
	Dimensions(WxDxH) (inch)	460mm×520mm×165mm (18.11*20.47*6.50)
basic	Cycle life	5000 Cycles @ 25°C 0.5C,80% DOD; 3500 Cycles @ 25°C 0.5C,100%DOD;
parameter	Number of parallel connections supported	16
	Self-discharge (month)@25°C	3%
	BMS communication types	RS485; RS232; CAN
	Cooling Mode	Free cooling
	IPClass	IP30
	Display Fuction	LCD display screen
	Design Life	15 years
	Shell Material	Q235A
	Certification (Program)	CE UN38.3 IEC

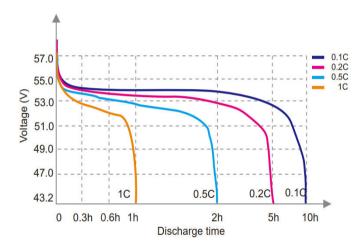
	Items	Parameters
	Storage Temperature	-40°C to 60°C
	Transport Temperature	-40°C to 60°C
Environment	Operate Temperature	charge:0°C to 45°C; discharge: -10°C to 55°C (45°C Load reduced)
	Relative Humidity	5% to 95%
	Working Pressure	76kPa~106kPa

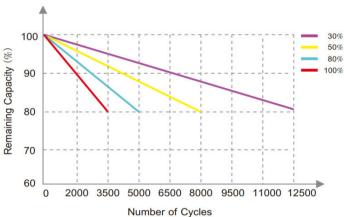
Note: When the battery pack needs to be stored for a long time, please charge the battery pack to about 50% power, and cycle the standard charge/discharge current at least once every month, and every three months. The battery should be activated once every three months with a small current (0.1C). Environmental requirements: temperature 0°C~35°C, relative humidity 45%~85%, atmospheric pressure 70kPa~106kPa.Place in dry and ventilated place, avoid contact with corrosive substances, keep away from fire and heat source.

		Discharging Diagram				
Time (h)	1h	2h	3h	5h	10h	
Constant Current (A)	100A	50A	33A	20A	10A	
Constant Power (W)	5120W	2560W	1690W	1024W	512W	

Discharge time curves at different rates@ 25°C

Different DOD Discharge Cycle Life Curve (0.5C)





Matching Inverters

No.	Manufacture		Туре	COM RS485/CAN
1	Deye 後業"		Pylon RS485 LV-BPC V3.5-2019.08-07, Pylon CAN 2022.05-10	
2	Growatt	Growatt	Growatt RS485 Modbus V2.01-2019.02.13	RS485
3	Voltronic	Voltronic Power	Voltronic inverter and BMS 485 communication protocol20191220	RS485
4	Bluesun	BLUESUN	Pylon RS485 LV-BPC V3.5-2019.08-07	RS485
5	Luxpower	LU X POWERTEK	Luxpowertek RS485 inverter VO.3- 2020.07.06	RS485
6	SMK	SMK SOLAR 斯曼科新能源	(锂电协议GT版) A08 RS485 inverter V1.0- 2022.12	RS485
7	Srne	SRNE硕日	WOW-protocol-V1.3-2017.06.27	RS485
8	SMA	SMA CAN V2. 0		CAN
9	Must	MUST美世乐	Must CAN PV1800F	
10	Schneider	Schneider	Schneider CAN 2019.07	
11	Magerevo	MEGAREVO	REVO series low voltage battery BMS communication protocol (V1.02)	CAN
12	Goodwe	 	Goodwe CAN inverter LV V1.7-2020.02.28	CAN
13	Victron	victron energy	Victron CAN 2017.07.27	CAN

Installation options



