

# 51.2V 100Ah LiFePO4 Powerwall Home Energy Storage Battery

51.2V 100Ah

SO-51.2V



SO-51.2V Battery BMS supports simultaneous communication and compatible with multiple inverter brands



## Super Points: ONE Battery For Multiple Brand Inverters

### Product advantages

#### Long cycle life

Using high-quality lithium iron phosphate batteries, the cycle life is more than 6000 times at 80%DOD, and can be used for 10-15 years



#### High quality prismatic lithium iron phosphate battery

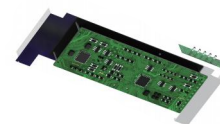
Higher capacity, higher current, longer life

#### Low internal resistance and high current

Low internal resistance of the battery, excellent continuous high current discharge performance

#### Intelligent BMS battery protection

Built-in intelligent BMS (battery management system), effectively avoiding overcharge, overdischarge, overcurrent, short-circuit, balance and other problems



#### Communicated with multiple brands inverter

battery BMS supports simultaneous communication and docking with multiple brands inverter

#### Good safety performance

Extreme safety test, no fire, no explosion, no leakage

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## Key Features

- ★ Automotive Grade Cells-16 cell configuration
- ★ Integrated CAN bus RS485 BMS.
- ★ LED display shows battery Power.
- ★ Pre-configured with optimal parameters.
- ★ No other LiFePO4 battery offers this functionality, longevity and warranty at our price.
- ★ Warranted for daily cycling.
- ★ Communicated with inverter brand: SMA, Studer, Solar-Edge, Schneider, DEYE, Solis, Sungrow, Growatt, Sofar, Must, Sol-Ark, Sunsynk and etc

## Application

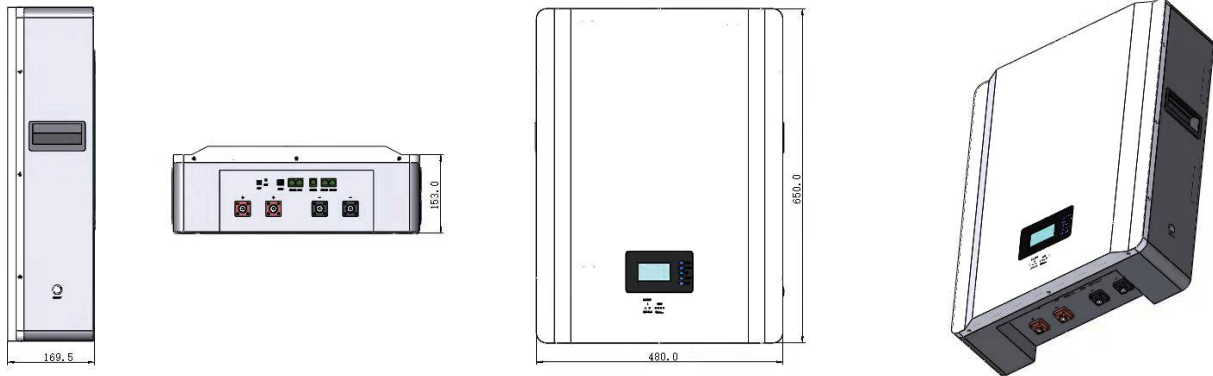
- ★ Over charge detection function
- ★ Over discharge detection function
- ★ Over current detection function
- ★ Temperature protection function
- ★ Short circuit detection function
- ★ Balance function
- ★ Upper computer software monitor
- ★ LCD Screen optional

## Parameters

Product model	SO-51.2V
Product specification	51.2V 100Ah
Nominal voltage	51.2V
Nominal capacity	100Ah
Cell type	(LFP)
Charge Voltage	55.2V-56VDC
Max charge current	100A
Discharge cut-off voltage	44.8V
Max discharge current	100A
Parallels Function	Support 8 units in parallels
Communication interface	RS485、RS232、CAN(Optional)
Cycle life	≥ 6000 Cycles (80%DOD)
Charge temperature range	0~65°C
Discharge temperature range	-20~65°C
Colour	(Grey and white)
Dimensions	480*650*169.5MM
Weight	48Kg
Installation method	(Wall mounted)
Warranty	10 Years For Cells, 5 Years For BMS

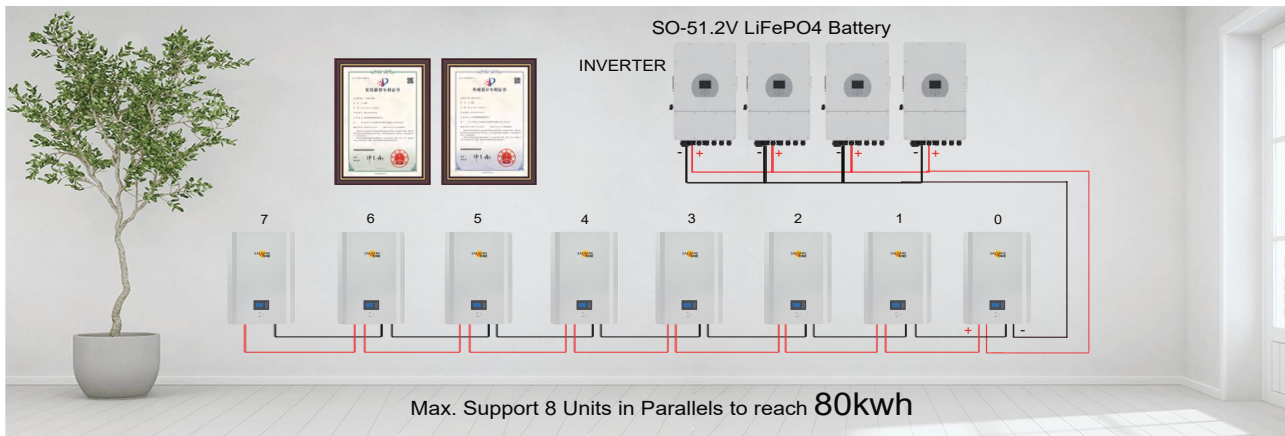
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## Drawing

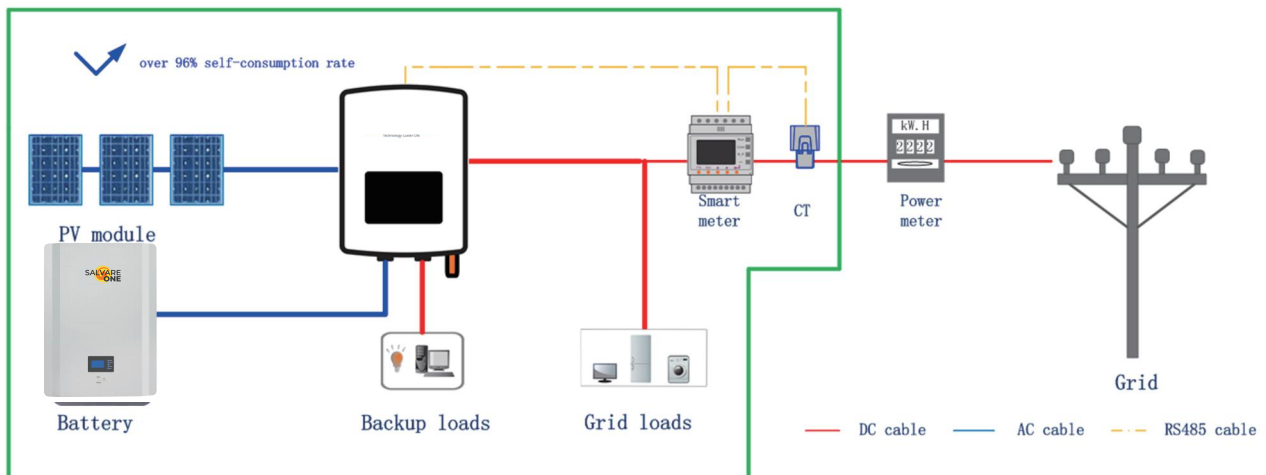


## Parallel Connection Of Batteries

Connect the positive pole and positive pole in parallel, and the negative pole and negative pole in parallel, as shown in the figure below



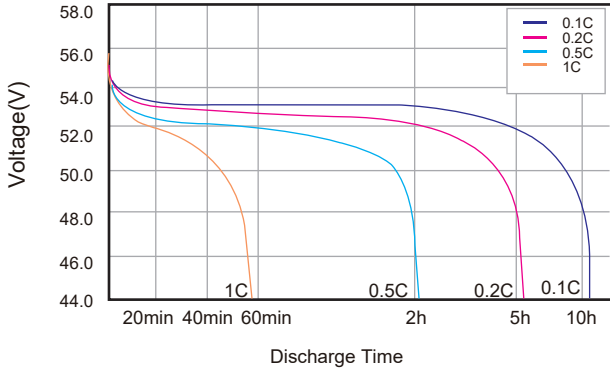
## Working Diagram



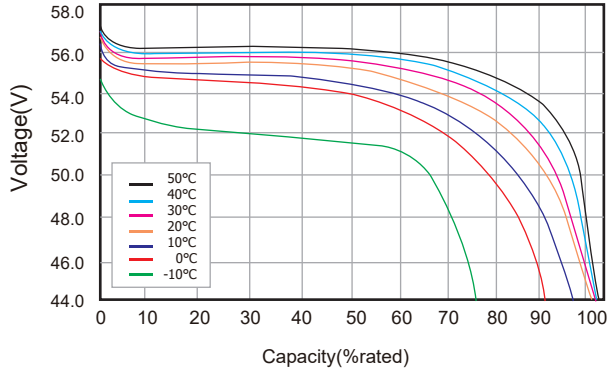
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## ● Different current/Temperature Discharge curves

Different Rate Discharge Curve @25°C

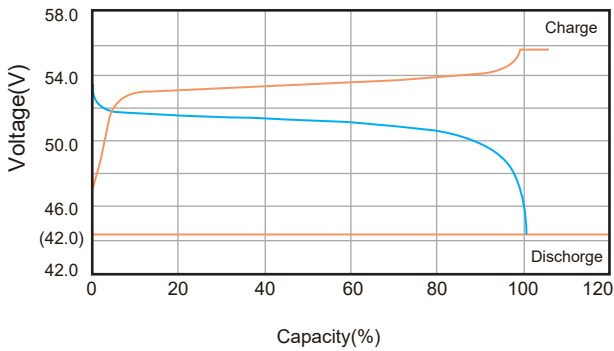


Different Temperature Discharge Curve @0.5C

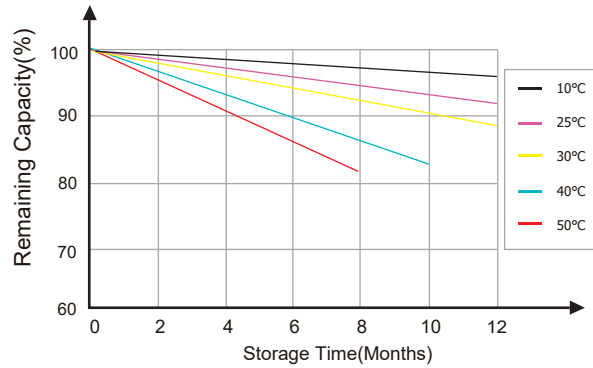


## ● Charging and Discharge curve

Charge and Discharge at 25°C, 0.5C

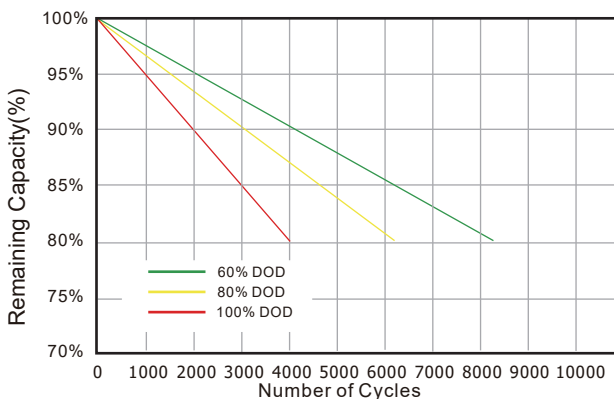


Different Temperature Self Discharge Curve



## ● Cycle Life Curve

Different Discharge Depth Life Curves & 25°C, 0.5C



Different Discharge Depth Life Curves & 40°C, 0.5C

