

51.2V 100Ah & 200Ah LiFePO4 Powerwall Home Energy Storage Battery

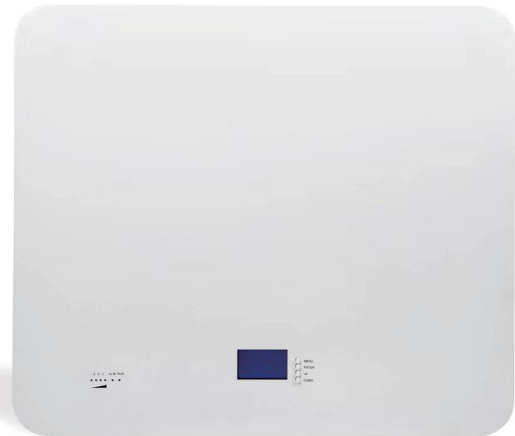
51.2V 100Ah

ES-BOX2



51.2V 200Ah

ES-BOX5



South African Market

battery BMS supports simultaneous communication and docking with multiple inverter brands



American Market

battery BMS supports simultaneous communication and docking 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 same time

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

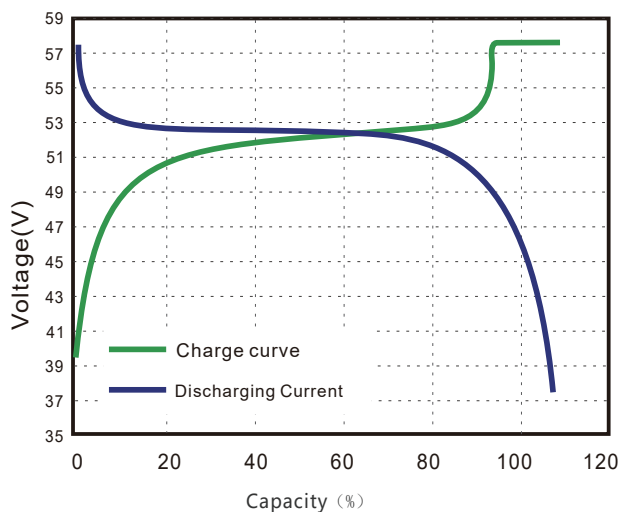
Parameters

Product model	ES-BOX2	ES-BOX5
Product specification	51.2V100Ah	51.2V 200Ah
Nominal voltage	51.2V	51.2V
Nominal capacity	100Ah	200Ah
Cell type	(LFP)	(LFP)
Standard charge voltage	58.4V	58.4V
Max charge current	100A	100A
Discharge cut-off voltage	40V	40V
Max discharge current	100A	100A
Parallels Function	Support 8 units in parallels	Support 15 units in parallels
Communication interface	RS485, RS232, CAN(Optional)	RS485, RS232, CAN(Optional)
Cycle life	≥ 6000 Cycles (80%DOD)	≥ 6000 Cycles (80%DOD)
Charge temperature range	0~65°C	0~65°C
Discharge temperature range	-20~65°C	-20~65°C
Colour	(Grey and white)	(Grey and white)
Dimensions	600*510*173MM	673*618*193MM
Weight	58Kg	89Kg
Installation method	(Wall mounted)	(Wall mounted)

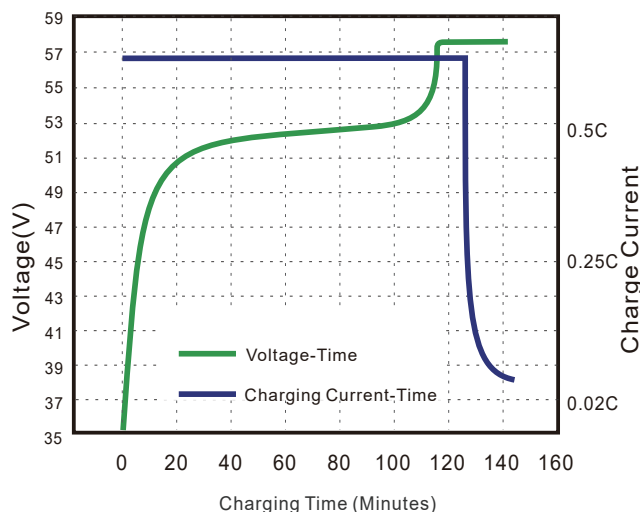
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Charging and Discharge curve

● Charge and discharge curve @0.5C 25°C

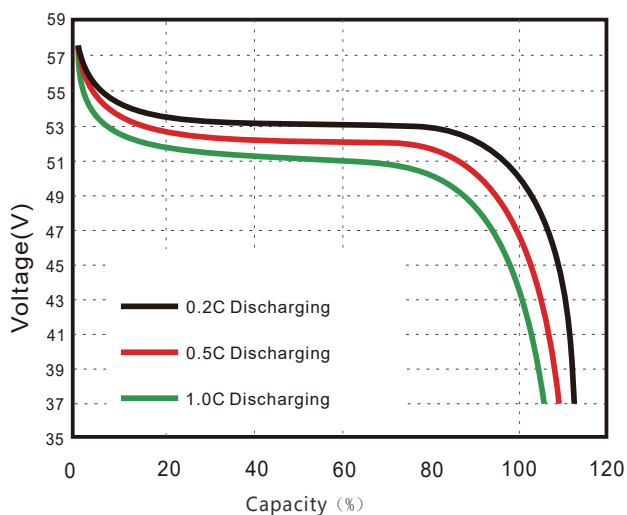


● Charging Characteristics @0.5C 25°C

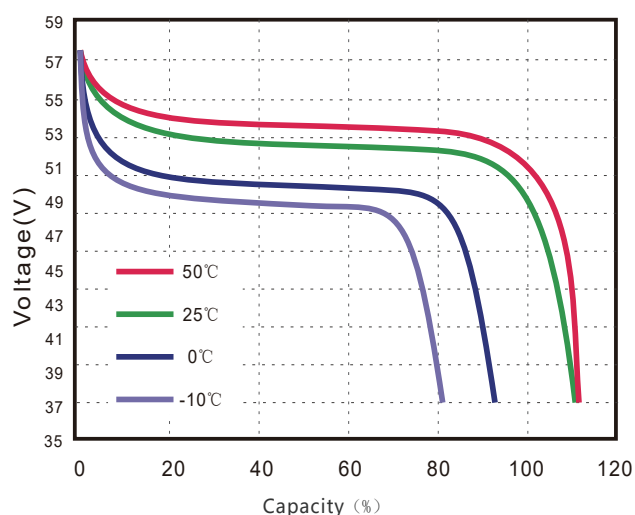


Different current/Temperature Discharge curves

● Different Rate Discharge Curve @25°C

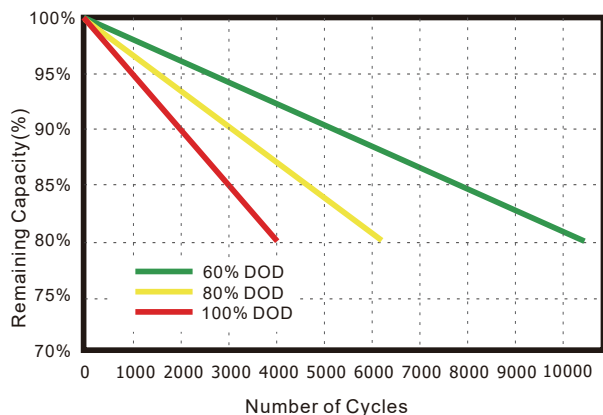


● Different Temperature Discharge Curve @0.5C

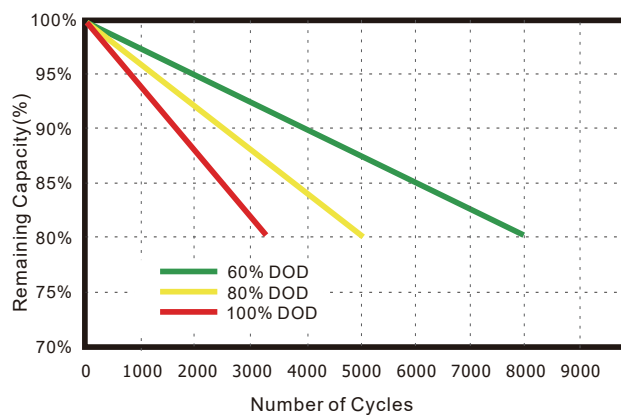


Cycle Life Curve

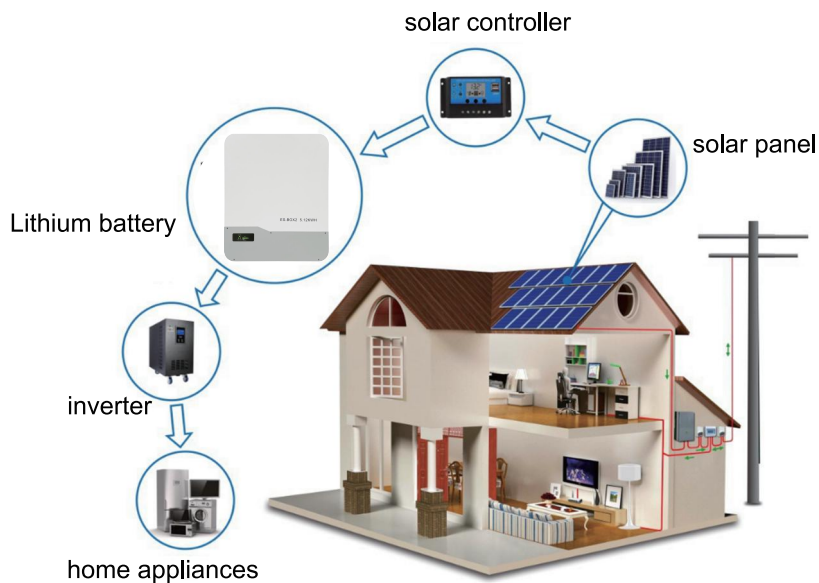
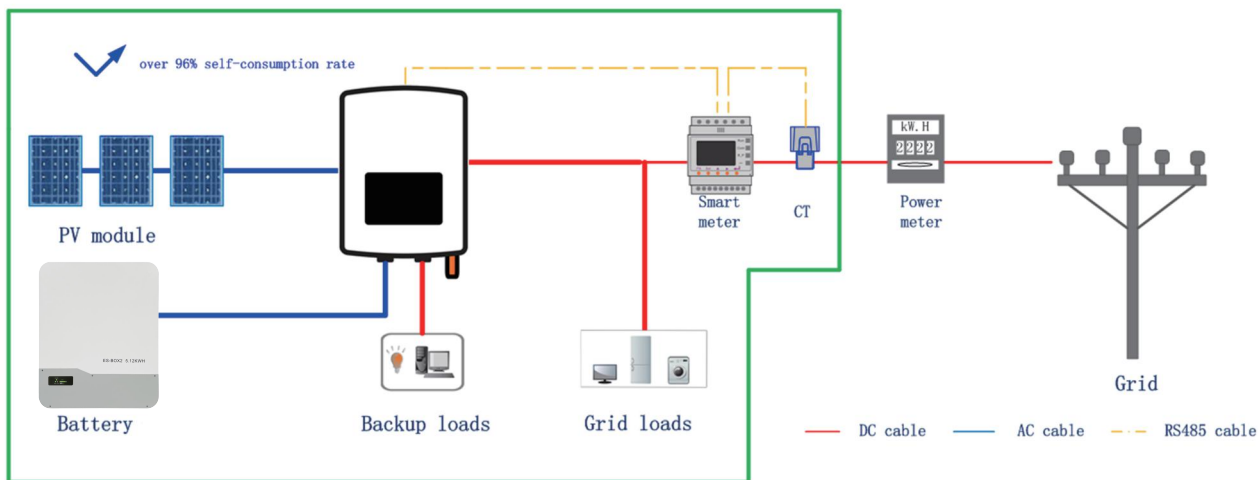
● Different discharge depth life curves & 25°C 0.5C



● Different discharge depth life curves & 40°C 0.5C



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Product Application

