

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

51.2V 100Ah

ES-BOX3



South African Market

Our battery BMS supports simultaneous communication and docking with multiple inverter brands

SUN SYNK®

Growatt

Deye 德業®

MUST®



51.2V 200Ah

ES-BOX4



American Market

Our battery BMS supports simultaneous communication and docking with multiple inverter brands

SolArk  
Soluciones Arquitectónicas

Growatt

Deye 德業®

Schneider Electric



## 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

Our 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.
- ★ LCD display shows battery information.
- ★ **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	EX-BOX3	ES-BOX4
Product specification	51.2V 100Ah	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
Display	LCD	LCD
Communication interface	RS485, RS232, CAN(Optional)	RS485, RS232, CAN(Optional)
Cycle life	≥ 4000 Cycles (80%DOD)	≥ 4000 Cycles (80%DOD)
Charge temperature range	0~65°C	0~65°C
Discharge temperature range	-20~65°C	-20~65°C
Colour	Black and white	Black and white
Dimensions	600X400X213MM	710X670X188MM
Weight	51Kg	85Kg
Installation method	(Wall mounted)	(Wall mounted)

# 48V 200Ah LiFePO4 Powerwall Home Energy Storage Battery

48V 100Ah

ES-BOX3



48V 200Ah

ES-BOX4



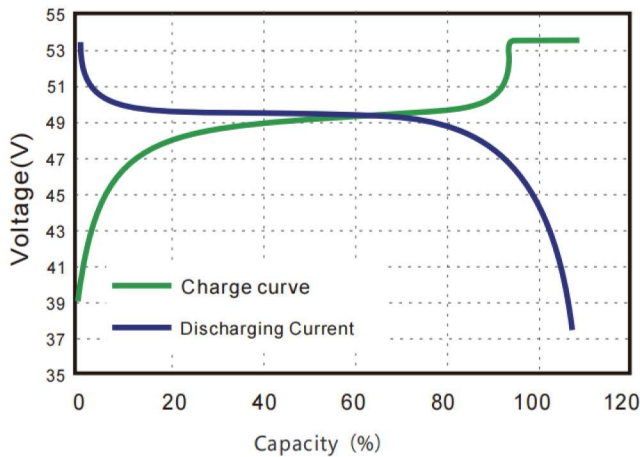
## Parameters

Product model	EX-BOX3	ES-BOX4
Product specification	48V 100Ah	48V 200Ah
Nominal voltage	48V	48V
Nominal capacity	100Ah	200Ah
Cell type	(LFP)	(LFP)
Standard charge voltage	54.75V	54.75V
Max charge current	100A	100A
Discharge cut-off voltage	37.5V	37.5V
Max discharge current	100A	100A
Display	LCD	LCD
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	Black and white	Black and white
Dimensions	600X400X213MM	710X670X188MM
Weight	49Kg	81Kg
Installation method	(Wall mounted)	(Wall mounted)

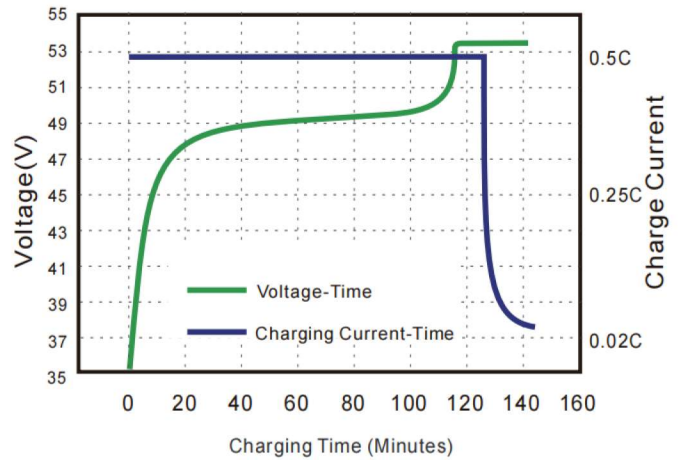
# 51.2V 100Ah & 200Ah LiFePO4 Powerwall Home Energy Storage Battery

## Charging and Discharge curve

● Charge and discharge curve @0.5C 25°C

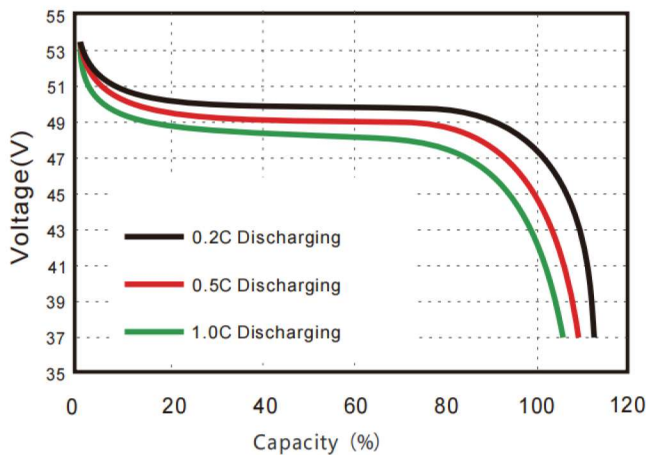


● Charging Characteristics @0.5C 25°C

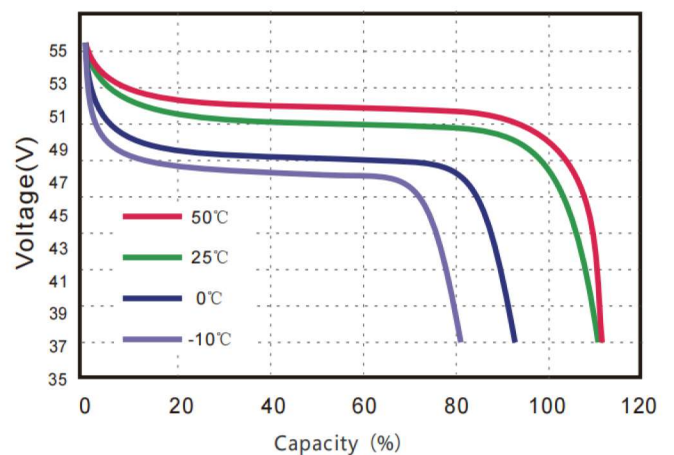


## Different current/Temperature Discharge curves

● Different Rate Discharge Curve @25°C

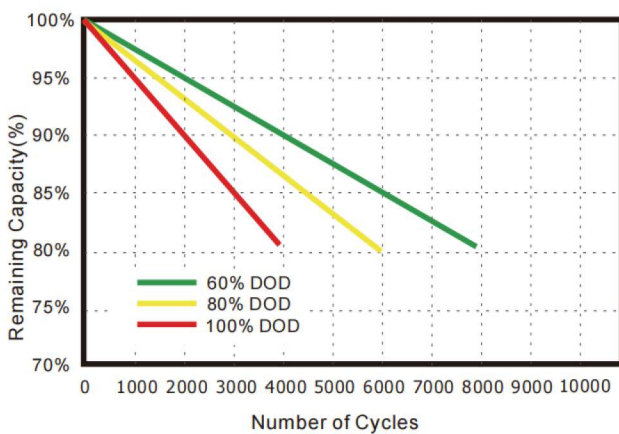


● Different Temperature Discharge Curve @0.5C

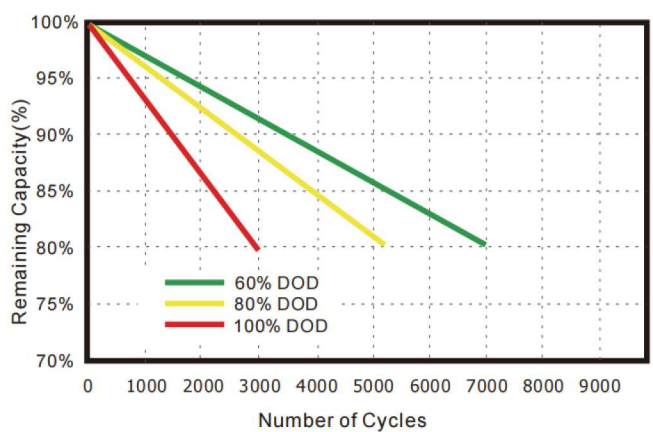


## Cycle Life Curve

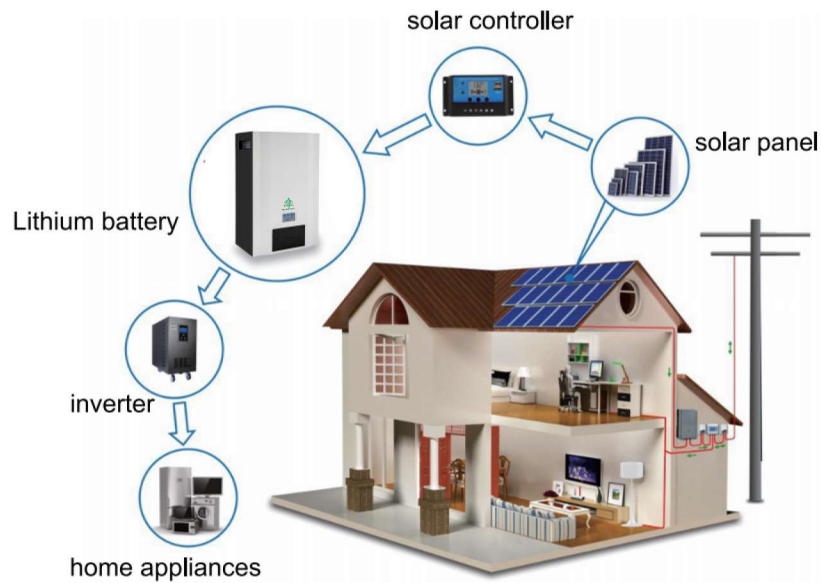
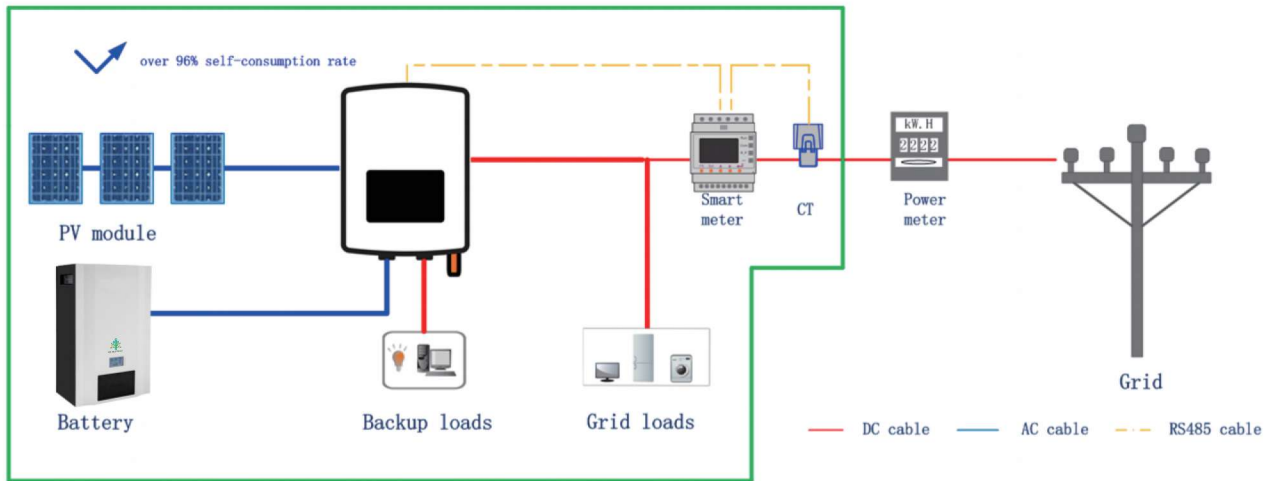
● Different discharge depth life curves @25°C 0.5C



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



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## Product Application

