

# 12.8V 50Ah LiFePO4 Home Energy Storage Battery

## 12.8V 50AH



### Super Points: ONE Battery For Multiple Brand Inverters

#### Long cycle life

Using high-quality lithium iron phosphate batteries, the cycle life is more than 6000 times@1C 90% DOD, and can be used for 10-15 years



#### High quality Grade A+ Prismatic LiFePO4 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

### Product advantages

#### Intelligent BMS battery protection

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



#### Intelligent control & monitor with Bluetooth

#### Good safety performance

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



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### Key Features

- ★ A GRADE high quality prismatic cells.
- ★ High quality smart BMS.
- ★ Maintenance free & Low self discharge & Fast and efficient charging.
- ★ Bluetooth and LCD Display for intelligent control and monitor.

### Protection

- ★ 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

## Parameters

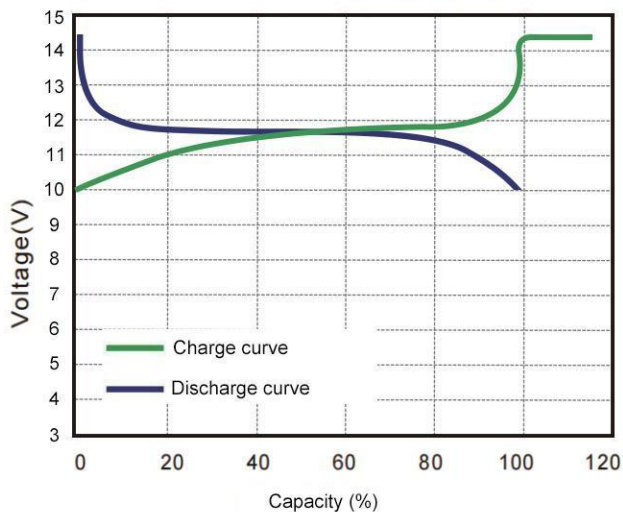
Product model	LFPI-12.8V50AH
Product specification	12.8V 50Ah
Nominal voltage	12.8V
Nominal capacity	50Ah
Cell type	A+ Grade LiFePO4
Standard charge voltage	14.6V
Max charge current	50A
Discharge cut-off voltage	10V
Max discharge current	50A
Parallels function	Support 4 units in series/ 4 units in parallel
Cycle life	6000 Cycles@1C 90%DOD
Charge temperature range	-0~60°C
Discharge temperature range	-20~60°C
Color	( Black)
Dimensions	329*172*214 MM
Weight	8kg
Installation method	Floor
Energy	640WH
Months Self Discharge	< 3%
Efficiency of charge	100%@0.2C
Efficiency of Discharge	96-99%@1C
Cells	Prismatic
Case	ABS
Terminal	M6
Certificates	ISO,UL,CEI-021,IEC,CE,CB,UN38.3,MSDS
Monitoring & Control	Bluetooth & LCD Display

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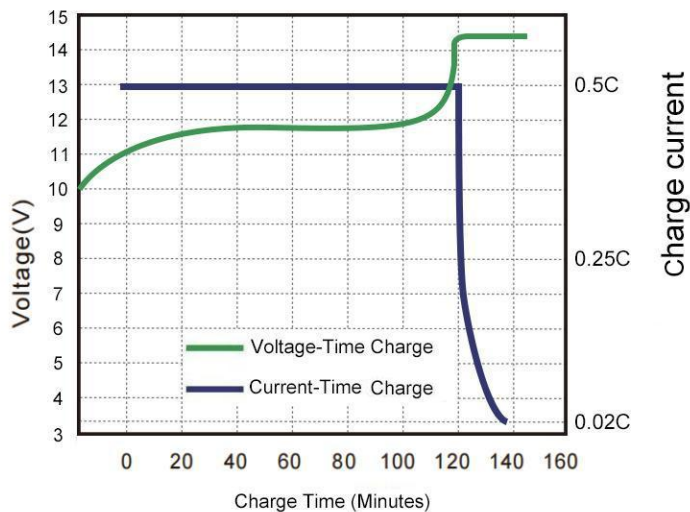
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## Charging and Discharge curve

- Charge and discharge curve @0.5C 25°C

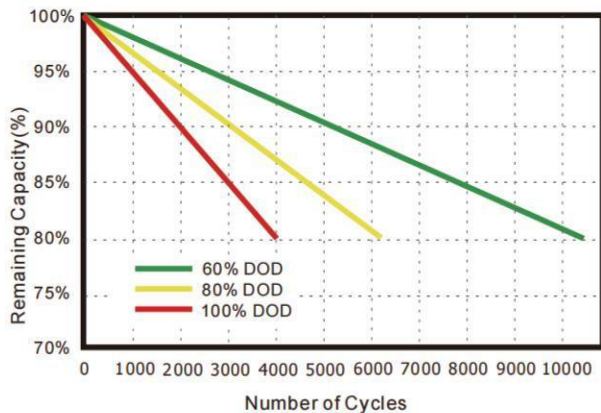


- Charge curve @0.5C 25°C

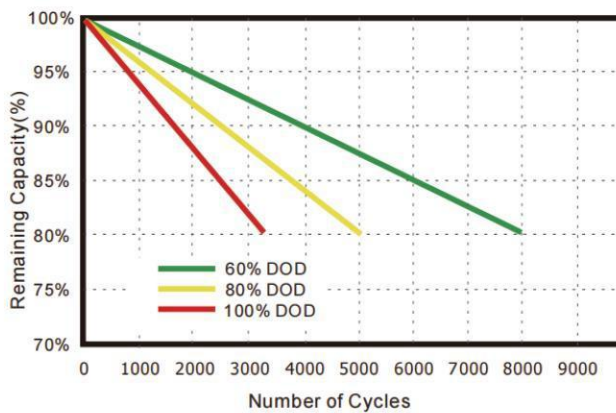


## Cycle Life Curve

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



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



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