

The LFP Rechargeable battery is optimized for low application which reqiures high energy density.

## Technical Parameter

Battery Model	LFP 25.6V42Ah
Nominal Voltage	25.6V
Capacity	42Ah
Nominal Capacity	1.0752Wh
Operating Voltage Range	29.2V~20V
Maximum Charging Current	15A
Maximum Discharging Current	15A
Charging Temperature Range	0°C~45°C
Discharging Temperature Range	-20°C~60°C
Dimension	690*142*95mm
Weight	11.5Kg
IP Level	IP65
Cell Cycle Life	2000 times
Controller	MPPT 15A with RS485

#### **Features**



#### High cycle life

2000 cycles @80% DoD for effectively lower total of ownership cost.



## Longer service life

Low maintenance batteries with stable chemistry.



# Built in circuit protection

Battery Management System (BMS) is incorporated against abuse.



#### **Better storage**

Up to 6 months thanks to its extremely low self discharge(LSD) rate and no risk of sulphation.



## Quickly recharge

Save time and increase productivity with less down time thanks to superior charge/ discharge efficiency./



## Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.



#### Lightweight

Lithium batteries provide more Wh/Kg while alsobeing up to 1/3 the weight of its SLA equivalent.







Built-in intelligent BMS for battery protection



Support remote monitoring



Efficient & long-lasting service life

### **Features**

- Used alone
- Eco-friendly and long lifespan
- ◆ Low self-discharge
- High energy density
- Excellent performance in all the operating temperature
- Automatic protection with battery management system internally Over charge, over discharge, Over load, Over short circuit protection
- industrial leading packing technology ensures the cells have a precise conformance and astable performance

### Dimensions

Length	690±1mm (20.55 inches)
Width	142±1mm (9.45 inches)
Heigth	95±1mm (8.58 inches)

### **Cautions**

- Avoid short circuit.
- ♦ Do not disassemble.
- ◆ Do not heat above 60°C.
- Avoid mechanical shock.
- Risk of fire, explosion, or burn.
- ◆ Do not throw into fire.





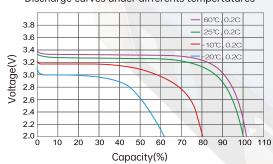


### Charge Performance

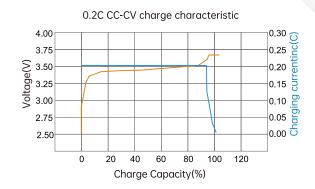
Recommended Charge Current	5A
Maximum Charge Current	15A
Recommended Charge Voltage	28.8V
BMS Charge Cut-Off Voltage	<29.2V (3.65V/Cell)
Reconnect Voltage	> 28V (3.5V/Cell)
Balancing Voltage	< 28.8V (3.6V/Cell)
Balancing Current	25mA

#### Different Temperature Disacharge Curve

Discharge curves under differents tempertatures



#### **0.2C CC-CV** charge characteristic

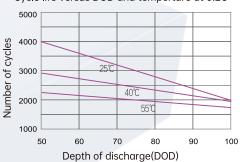


### **Discharge Performance**

Recommended Discharge Current	5A
Maximum Continuous Discharge Current	15A
Peak Discharge Current	30A/0.1S
Recommended Low Voltage Disconnect	24V (3.0V/Cell)
BMS Discharge Cut-Off Voltage	20V (2.5V/Cell)
Reconnect Voltage	> 24V (3.0V/Cell)
Short Circuit Protection	50~250uS

#### **0.2**C Temperature Cycle Life Curve

Cycle life versus DOD and temperture at 0.2C



#### Self Discharge Characteristics Curve



