

LITHIUM IRON PHOSPHATE BATTERY (LiFePO4 Battery Pack)

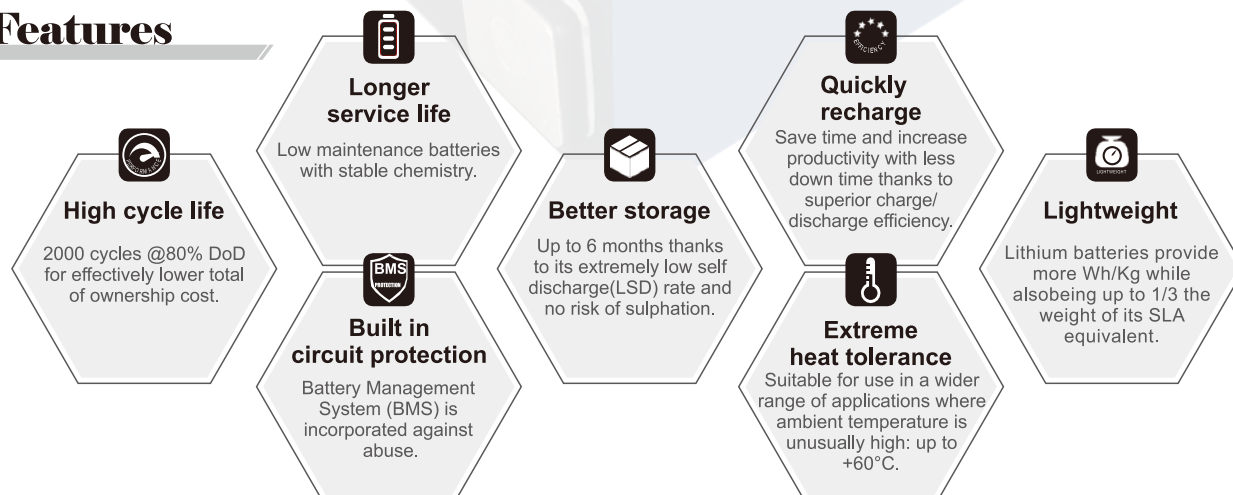
Introduction

The LFP Rechargeable battery is optimized for low application which requires 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





Built-in intelligent BMS
for battery protection



Support remote
monitoring



Efficient & long-lasting
service life

Features

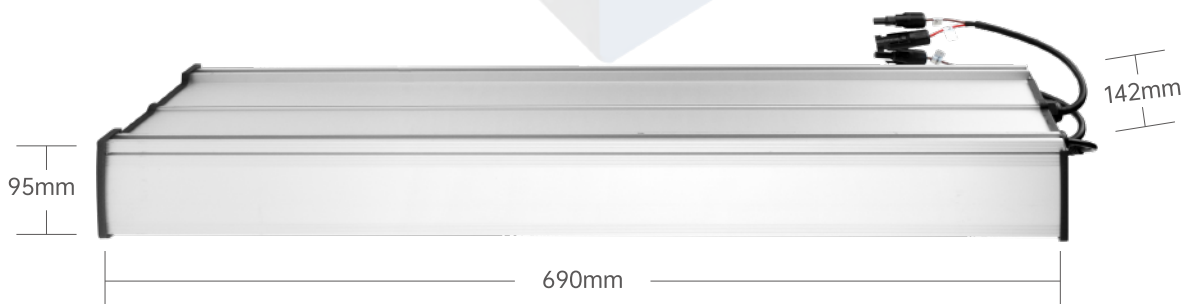
- ◆ Used alone
- ◆ Eco-friendly and long lifespan
- ◆ Low self-discharge
- ◆ High energy density
- ◆ Excellent performance in all the operating temperature
- ◆ Automatic protection with battery management system internally
Over charge, over discharge, Over load, Over short circuit protection
- ◆ industrial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

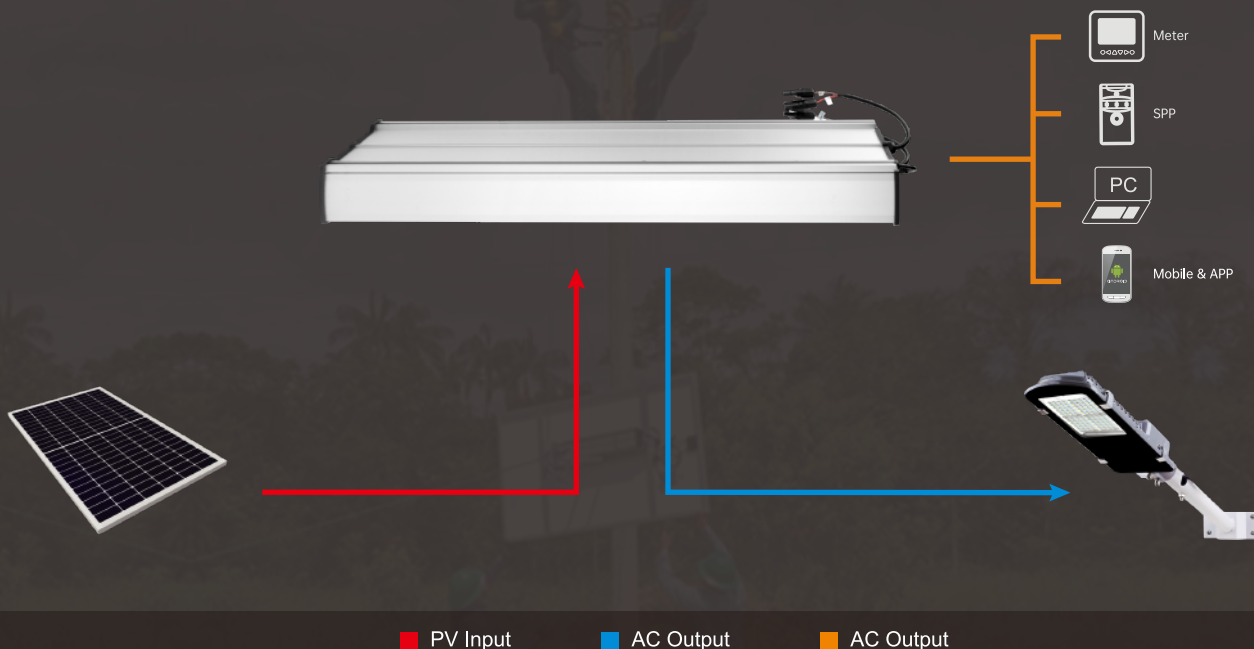
Dimensions

Length	690±1mm (20.55 inches)
Width	142±1mm (9.45 inches)
Height	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

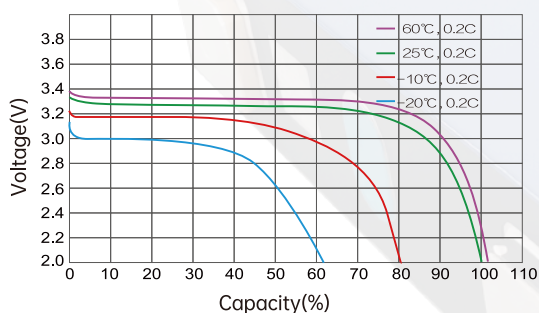
Recommended Charge Current	5A
Maximum Charge Current	15A
Recommended Charge Voltage	28.8V
BMS Charge Cut-Off Voltage	< 29.2V (3.65V/Cell)
Reconnect Voltage	> 28V (3.5V/Cell)
Balancing Voltage	< 28.8V (3.6V/Cell)
Balancing Current	25mA

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

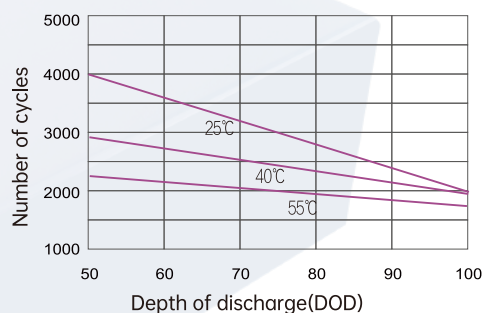
Different Temperature Discharge Curve

Discharge curves under different temperatures



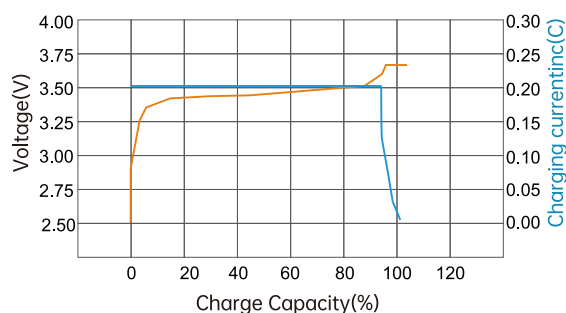
0.2C Temperature Cycle Life Curve

Cycle life versus DOD and temperature at 0.2C



0.2C CC-CV charge characteristic

0.2C CC-CV charge characteristic



Self Discharge Characteristics Curve

self-discharge characteristic

