

## HW-4F5

## 12.8V 5Ah LiFePO4 Battery

### BATTERY FEATURES

- Less Weight. In same capacity and voltage, LiFePO4 battery weight is 1/3 of Lead Acid battery.
- Long cycle Life. Under 100%DOD, the life cycle is more than 3000 times, its up to 8 times than Lead Acid battery.
- High Temperature Resistance. LiFePO4 battery working Temperature range is -20°C to 80°C
- Safer. Under extreme situation, LiFePO4 battery will never explode.
- Environmental Friendly.
- Zero Maintenance Requirements.

### ELECTRICAL SPECIFICATIONS

Nominal Voltage: 12.8V
Nominal Capacity: 5Ah
Energy: 64Wh
Efficiency: 99%
Self Discharge: <2% per Month
Maximum Modules in Series: 1

### DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current: 5A
Peak Discharge Current: 10A(≤5s)
BMS Discharge Current Cut-Off: 40A±5A
Discharge Cut-Off Voltage: 8.0V
BMS Discharge Voltage Cut-Off: 8.0V(2.0±0.1V)
Reconnect Voltage: 10.0V(2.5±0.1V)

### CHARGE SPECIFICATIONS

Recommended Charge Current: 2.0A-2.5A
Maximum Charge Current: 5A
Recommended Charge Voltage: 14.6V
BMS Charge Voltage Cut-Off: 15.0V(3.75±0.05V)
Reconnect Voltage: 14.6V (3.65±0.05V)

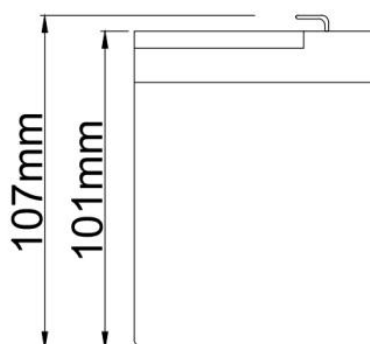
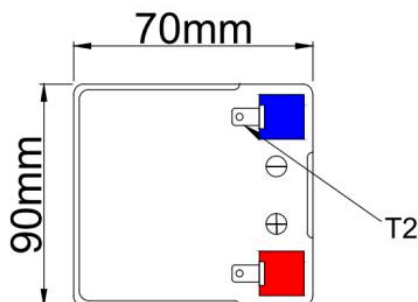
### TEMPERATURE SPECIFICATIONS

Charge Temperature: 0 to 45°C
Discharge Temperature: -20 to 60°C
Storage Temperature: -20 to 45°C
BMS High Temperature Cut-Off: 75±5°C
Reconnect Temperature: 55±15°C

### APPLICATIONS

- Solar/Wind energy storage
- Generator storage
- Golf cart
- Floor cleaning machine
- EV

### BATTERY PICTURE&TERMINAL



### MECHANICAL SPECIFICATIONS

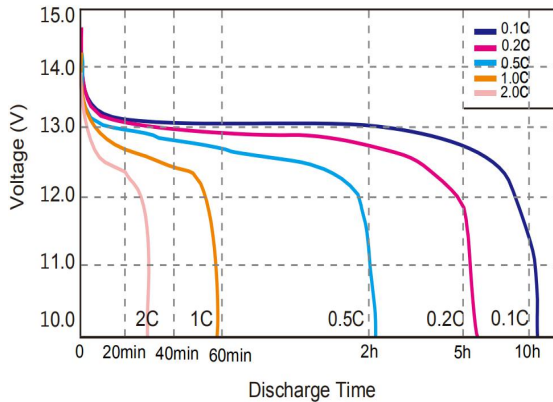
Dimensions: (L x W x H/TH): 90 x 70 x 101/107mm
Weight: 0.8Kg
Terminal Type: T2
Case Material: ABS+PC
Enclosure Protection: IP65
Outer Carton Size: 260 x 220 x 255mm
Package: 12pcs/Ctn, 768pcs/Tray, 7680pcs/20GP

Note: Before assemble the battery pack in series or parallel, please consult the battery manufacturer or distributor.



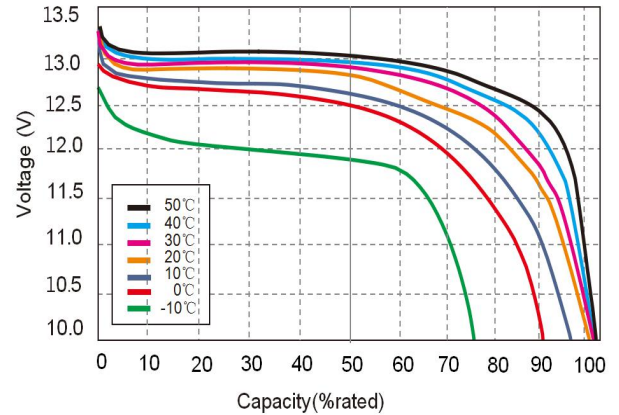
## Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



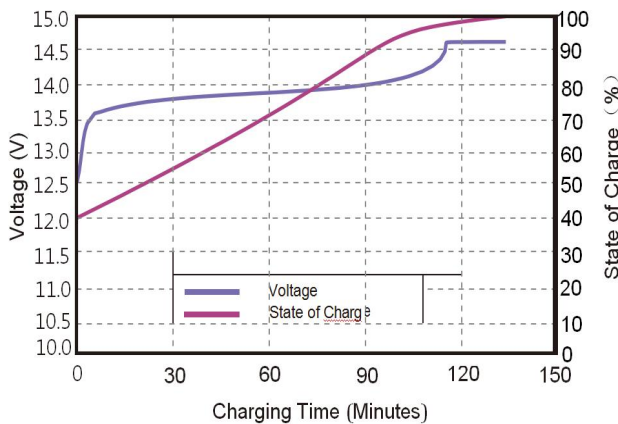
## Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



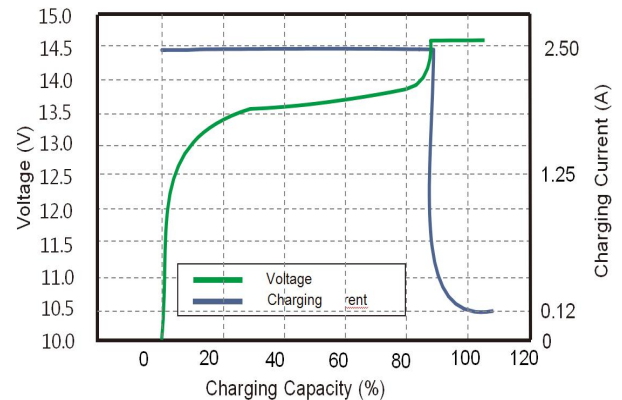
## State of Charge Curve

State of Charge Curve @0.5C 25°C



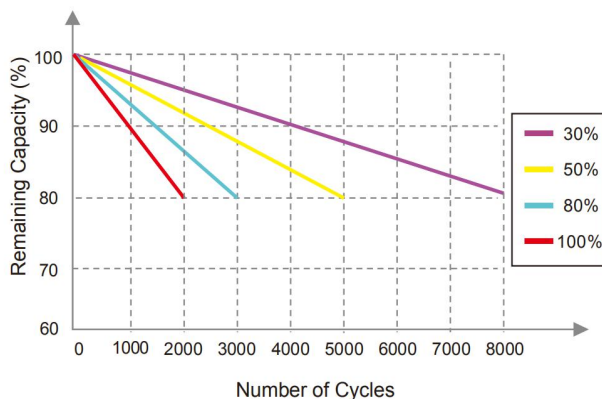
## Charging Characteristics

Charging Characteristics @0.5C 25°C



## Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



## Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

