

## HW-4F7 12.8V 7Ah 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: 7Ah
Energy: 89.6Wh
Efficiency: 99%
Self Discharge: <2% per Month
Maximum Modules in Series: 1

#### DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current: 7A
Peak Discharge Current: 14A(≤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: 0.7A-3.5A
Maximum Charge Current: 7A
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	

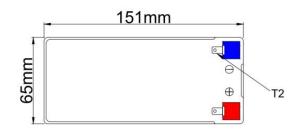
#### APPLICATIONS

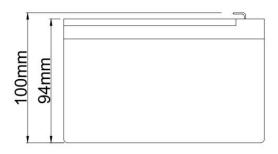
- Solar/Wind energy storage
- Generator storage
- Golf cart
- Floor clearning machine
- EV

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#### BATTERY PICTURE&TERMINAL







#### MECHANICAL SPECIFICATIONS

Dimensions: (L x W x H/TH): 151 x 65 x 94/100mm
Weight: 0.9Kg
Terminal Type: T2
Case Material: ABS+PC
Enclosure Protection: IP65
Outer Carton Size: 380 x 180 x 235mm
Package: 10pcs/Ctn,600pcs/Tray, 6000pcs/20GP

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

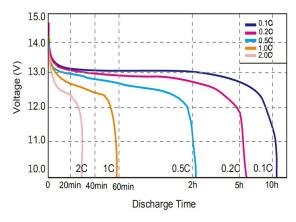




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#### Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



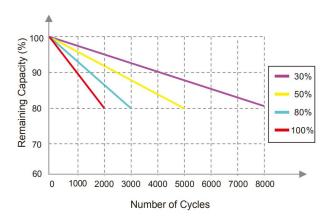
## State of Charge Curve

State of Charge Curve @0.5C 25°C

15.0 00 14.5 90 14.0 80 State of Charge (%) 13.5 70 13.0
13.0
13.0
12.5
12.0 60 50 40 30 11.5 20 11.0 Voltage State of Charge 10.5 10 10.0 0 60 120 0 30 90 150 Charging Time (Minutes)

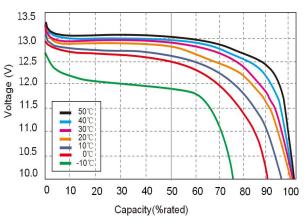
## Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



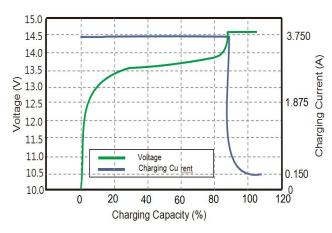
## Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



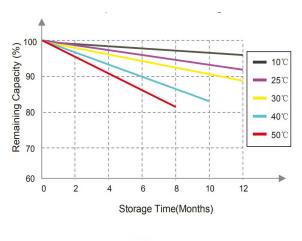
# Charging Characteristics

## Charging Characteristics @0.5C 25°C



## Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve



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