

HW-4F12 12.8V 12Ah 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: 12Ah
Energy: 153.6Wh
Efficiency: 99%
Self Discharge: <2% per Month
Maximum Modules in Series: 1

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current: 12A
Peak Discharge Current: 24A(≤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: 1.2A-6A
Maximum Charge Current: 12A
Recommended Charge Voltage: 14.6V
BMS Charge Voltage Cut-Off: 15.6V(3.90±0.25V)
Reconnect Voltage: 14.2V (3.8±0.1V)

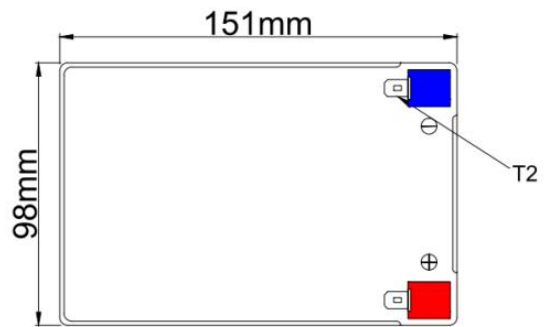
TEMPERATURE SPECIFICATIONS

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

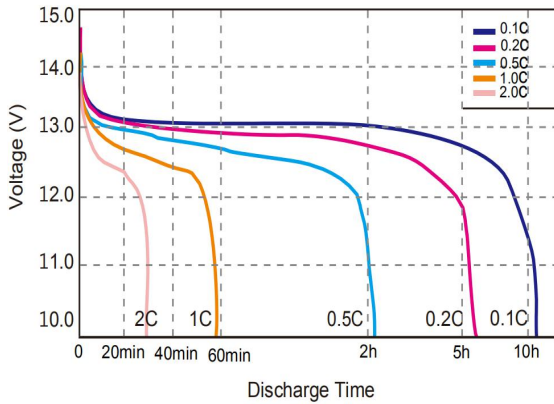
Dimensions: (L x W x H/TH): 151 x 98 x 95/101mm
Weight: 1.8Kg
Terminal Type: T2
Case Material: ABS+PC
Enclosure Protection: IP65
Outer Carton Size: 350 x 250 x 240mm
Package: 6pcs/Ctn,360pcs/Tray, 3600pcs/20GP

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



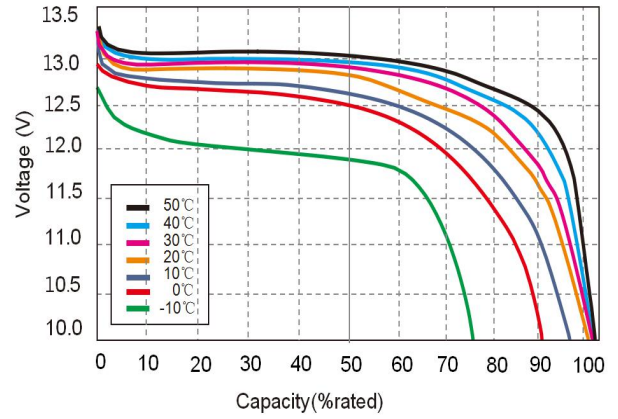
Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



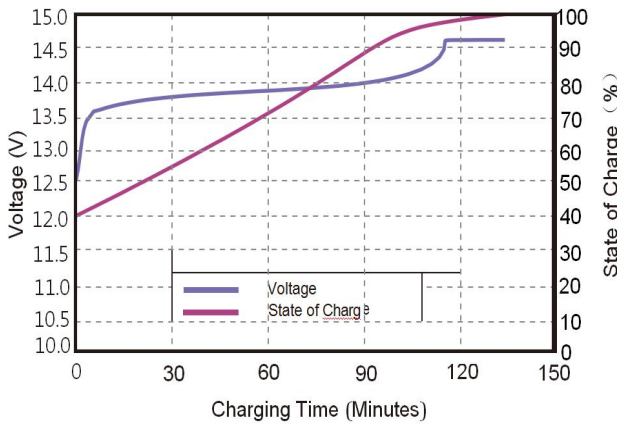
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



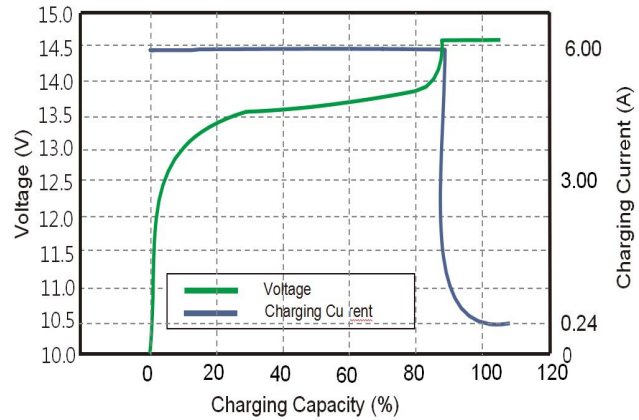
State of Charge Curve

State of Charge Curve @0.5C 25°C



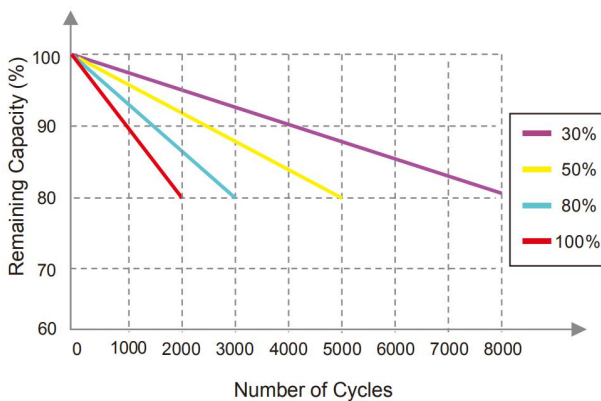
Charging Characteristics

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

