

HWE-4F20 12.8V 20Ah 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 80%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: 20Ah
Energy: 256Wh
Efficiency: 99%
Self Discharge: <2% per Month
Maximum Modules in Series: 2S4P

DISCHARGE SPECIFICATIONS

Maximum Continuous Discharge Current: 20A
Peak Discharge Current: 40A(≤5s)
BMS Discharge Current Cut-Off: 80A±10A
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: 2A-10A
Maximum Charge Current: 20A
Recommended Charge Voltage: 14.6V
BMS Charge Voltage Cut-Off: 15.6V(3.90±0.25V)
Reconnect Voltage: 14.2V (3.8±0.1V)

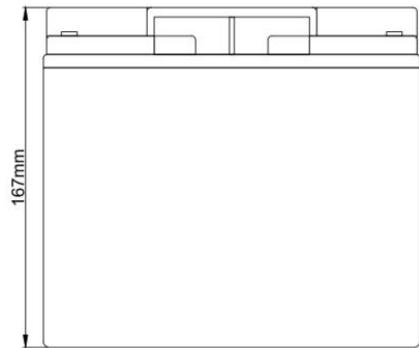
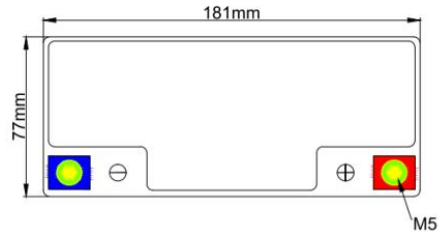
TEMPERATURE SPECIFICATIONS

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

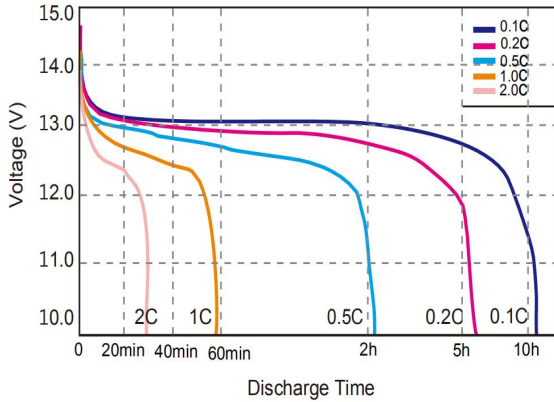
Dimensions: (L x W x H/TH): 181 x 77 x 167mm
Weight: 3.0Kg
Terminal Type: M5
Case Material: ABS+PC
Enclosure Protection: IP65
Outer Carton Size: 350 x 250 x 240mm
Package: 3pcs/Ctn,192pcs/Tray, 1920pcs/20GP

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



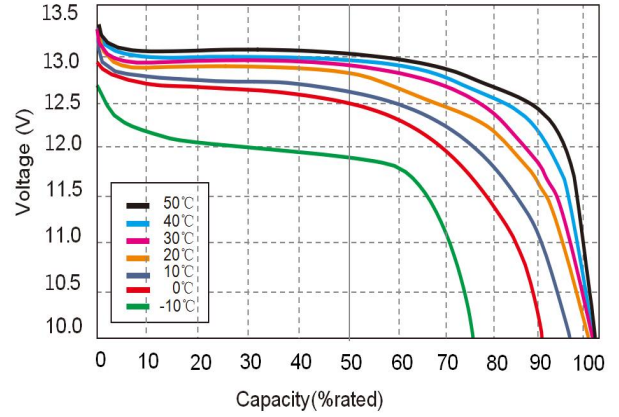
Different Rate Discharge Curve

Different Rate Discharge Curve @25°C



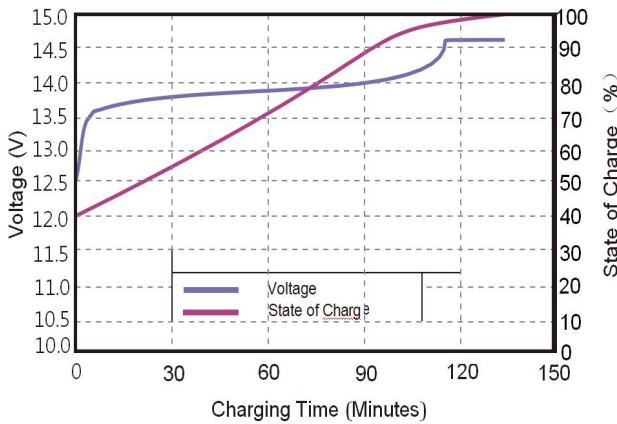
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C



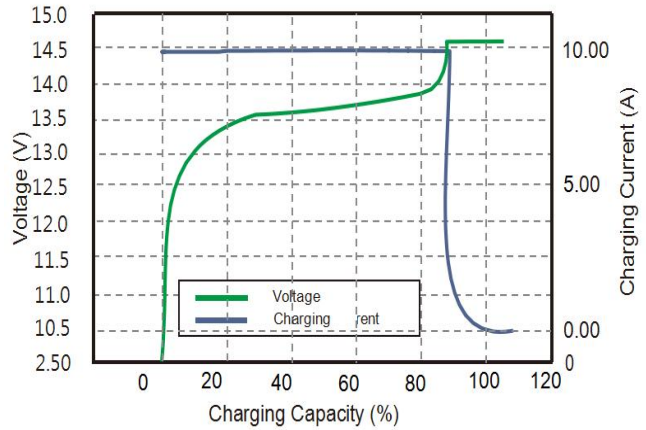
State of Charge Curve

State of Charge Curve @0.5C 25°C



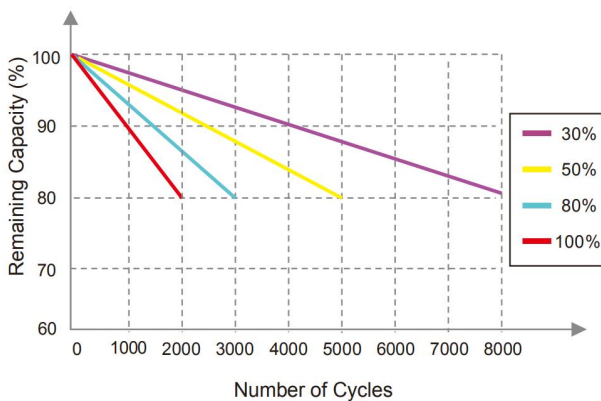
Charging Characteristics

Charging Characteristics @1.0C 25°C



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

