

Lithium Iron Phosphate (LiFePO4) Battery

12V10Ah

This series is a complete solution for the Replacement of lead-acid batteries. It can be used in RV, electric mobility, Boat, home storage, backup power, UPS and Solar/wind energy storage system and other fields.

Features:

- Long cycle life
- High energy density
- Higher Power
- Fast charging
- Wider Temperature Range
- Low self-discharge rate
- Automatic protection with internal battery management system
- Support series or parallel connection, Increased Flexibility
- Maintenance free

Product renderings:



Battery Specifications:

Operating Voltage(V)	10.8~14.6
Nominal voltage(V)	12.8
Nominal Capacity(Ah)	10
Mix. capacity(Ah)	≥9.6
Nominal Energy(Wh)	128
Maximum power output(W)	128
Maximum charge voltage(V)	14.6±0.2
Float charge voltage(V)	13.5~13.8
Cut-off voltage(V)	9.6~10.8
Standard charge current(A)	2
Recommended charge current(A)	≤4
Allowed Max. charge current(A)	10
Standard discharge current(A)	2
Recommended discharge current(A)	≤10
Allowed Max. discharge current(A)	10
Peak discharge current@10S(A)	20
Internal Resistance(mΩ)	≤40
Charging temperature(°C)	0~55
Discharge temperature(°C)	-20~60
Cycles(25°C,0.5C,80%DOD)	>6000
Combination structure of battery	4S
Protection class	IP65
System weight(kg)	Approx. 1.2
Product size(L*W*H,mm)	151*65*94
Packing size(L*W*H,mm)	182*95*128

F1

Terminal (Unit : mm):

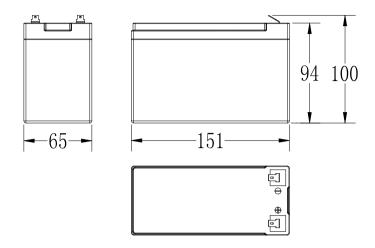
6.3

7 8

F2

Optional F1 or F2

Product dimension (Unit : mm)



Battery Curve:

Different Rate Discharge Curve @25°C Different Temperature Discharge Curve @0.5C 13.5 0.1C 14.0 0.2C 13.0 0.5C 1C 13.2 12.5 Voltage (V) Voltage (V) 12.4 12.0 11.6 11.5 50°C 40°C 30°C 20°C 10°C 0°C -10°C 10.8 11.0 10.0 10.5 0.2C 0.1C 10 0.5C9.2 10.0 0 20min 40min 60min 5h 0 2h 10h 10 20 30 40 50 60 70 80 90 100 **Discharge** Time Capacity(%rated) Charging Characteristics @0.5C 25°C Different DOD Discharge Cycle Life Curve 15.0 14.5 0.5C 100 50% 80% 14.0 Remaining Capacity (%) 100% 13.5 Charging Current 90 Voltage (V) 13.0 12.5 80 12.0 11.5 70 11.0 Voltage Charging Current 10.5 0.05C 60 10.0 0 1000 2000 3000 4000 5000 6000 7000 8000 0 80 100 0 20 40 60 Charging Capacity (%) Number of Cycles

With process improvements and product upgrades, the product parameters are subject to change without prior notice

Version : 202309