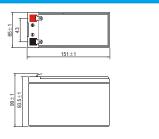
Lithium Iron Phosphate (LiFePO4) Battery

Features of LiFePO4 Battery

- Longer Cycle Life: Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- Lighter Weight: About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- **Higher Power**: Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- Wider Temperature Range: -20°C~60°C.
- Superior Safety: Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.
- Increased Flexibility: Modular design enables deployment of up to four batteries in series and up to ten batteries in parallel.

Physical Dimension



12.8V, 7.5AH



Application

- Electric vehicles, electric mobility
- Solar/wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

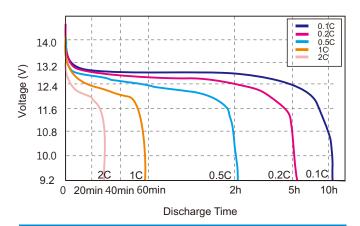
Specification

	12.8V
Nominal Capacity	7.5Ah
Energy	96Wh
Internal Resistance	≤60m Ω
Cycle Life	>2000 cycles @1C 100%DOD
Months Self Discharge	<3%
Efficiency of Charge	100% @0.5C
Efficiency of Discharge	96~99% @1C
Charge Voltage	14.6±0.2V
Charge Mode	0.2C to 14.6V, then 14.6V, charge current to 0. 02C (CC/CV)
Charger Current	4A
Max. Charge Current	7.5A
Charge Cut-off Voltage	15.6V±0.2V
Continuous Current	15A
Max. Pulse Current	20A(<3s)
Discharge Cut-off Voltage	8V
Charge Temperature	0 $^\circ \!$
Environmental Discharge Temperature Storage Temperature Water Dust Resistance	-20 $^\circ \!$
	0 $^\circ \!$
	IP56
Cell & Method Plastic Case Dimensions (in./mm.) Weight (lbs./kg.) Terminal	18650 4S5P
	ABS
	151*65*94mm (5.95"*2.56"*3.70")
	1.10kg (2.427lbs)
	T2
Protocol (optional)	SMBus/RS485/RS232
SOC (optional)	LED
	Internal Resistance Cycle Life Months Self Discharge Efficiency of Charge Efficiency of Discharge Charge Voltage Charge Voltage Charge Temperature Max. Charge Current Max. Charge Current Charge Cut-off Voltage Continuous Current Max. Pulse Current Discharge Cut-off Voltage Charge Temperature Discharge Temperature Storage Temperature Water Dust Resistance Cell & Method Plastic Case Dimensions (in./mm.) Weight (Ibs./kg.) Terminal Protocol (optional)



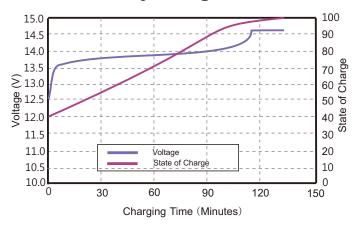
Different Rate Discharge Curve

Different Rate Discharge Curve @25°C

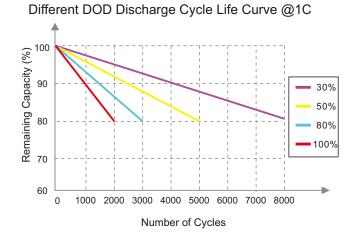


State of Charge Curve

State of Charge Curve @0.5C 25°C

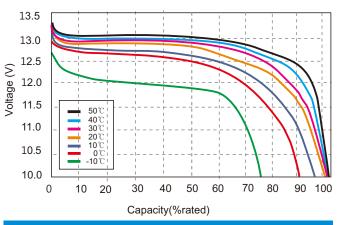


Cycle Life Curve



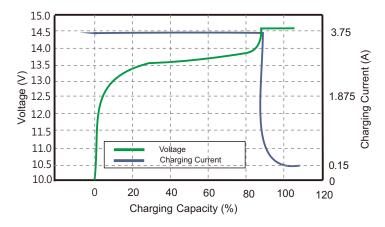
Different Temperature Discharge Curve

Different Temperature Discharge Curve @0.5C

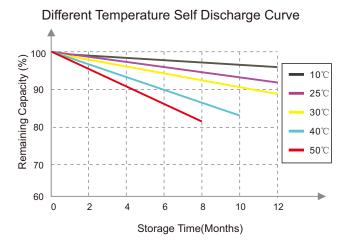


Charging Characteristics

Charging Characteristics @0.5C 25°C



Self Discharge Characteristics Curve



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