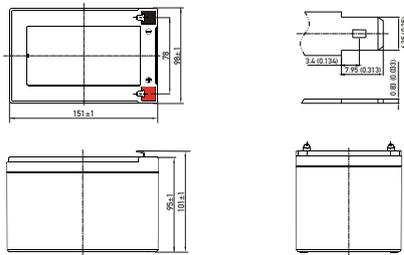


Features of LiFePO₄ Battery

- **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 the power of a 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



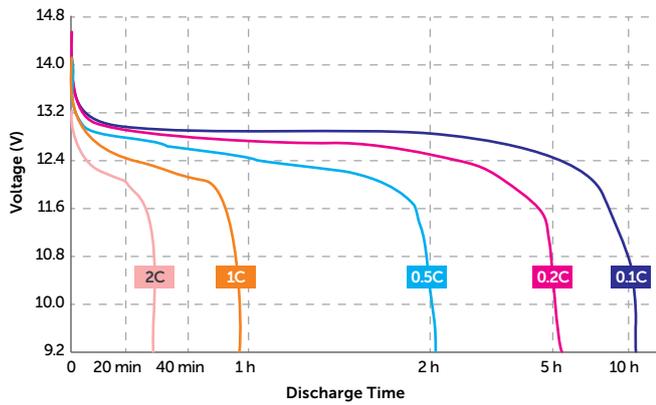
Application

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

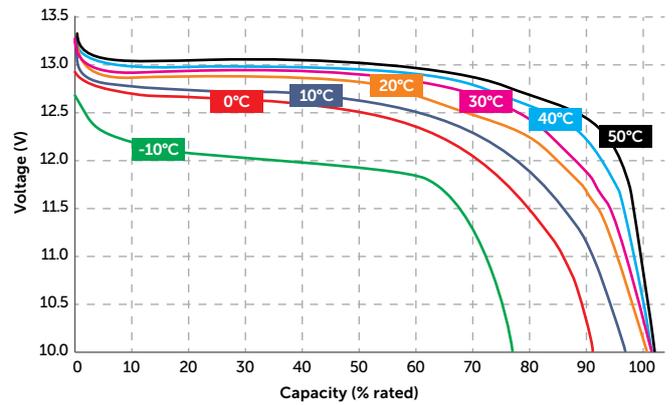
Specification

Electrical Characteristics	Nominal Voltage	12.8 V
	Nominal Capacity	12 Ah (C ₂₀ , 25°C)
	Energy	153.6 Wh
	Internal Resistance	≤ 50 mΩ
	Cycle Life	> 2000 cycles @ 1C 100 % DOD
	Months Self Discharge	< 3 %
	Efficiency of Charge	100 % @ 0.5 C
	Efficiency of Discharge	96~99 % @ 1 C
Standard Charge	Charge Voltage	14.6 ± 0.2 V
	Charge Mode	0.2 C to 14.6 V, charge current to 0.02 C (CC/CV)
	Charger Current	6 A
	Max. Charge Current	12 A
	Charge Cut-off Voltage	15.6 V ± 0.2 V
Standard Discharge	Continuous Current	24 A
	Max. Pulse Current	30 A (<3s)
	Discharge Cut-off Voltage	8 V
Environmental	Charge Temperature	0°C to 45°C (32 F to 113 F) @ 60 ± 25% Relative Humidity
	Discharge Temperature	-20°C to 60°C (-4 F to 140 F) @ 60 ± 25 % Relative Humidity
	Storage Temperature	0°C to 40°C (32 F to 104 F) @ 60 ± 25 % Relative Humidity
	Water Dust Resistance	IP56
Mechanical	Cell & Method	18650 4S8P
	Plastic Case	ABS
	Dimensions (in/mm)	151 x 98 x 95 mm (5.95 x 3.86 x 3.74 in)
	Weight (lbs/kg)	1.70 kg (3.751 lbs)
	Terminal	T2
	Protocol (optional)	SMBus/RS232
	SOC (optional)	LED

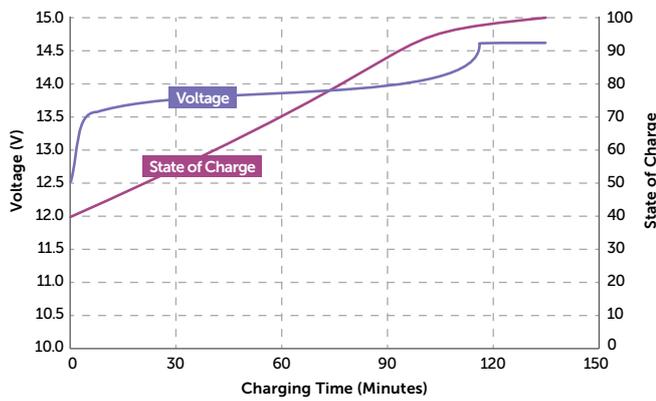
Different Rate Discharge Curve @ 25°C



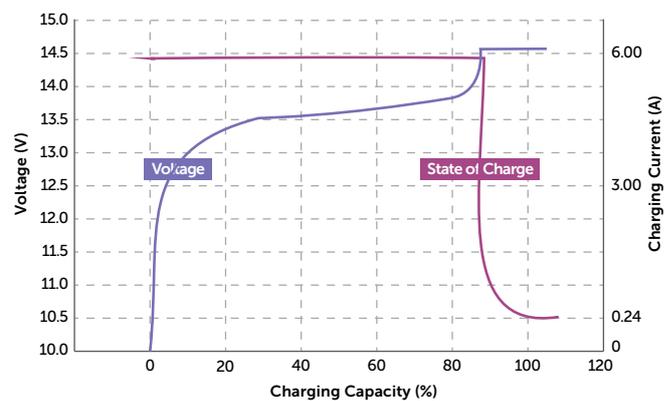
Different Temperature Discharge Curve @ 0.5C



State of Charge Curve @ 0.5C 25°C

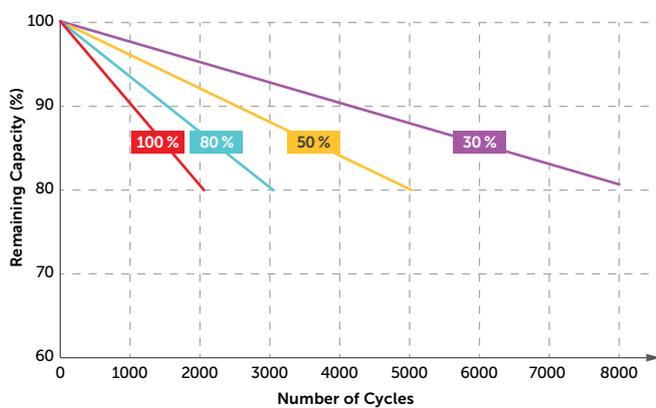


Charging Characteristics @ 0.5C 25°C



Cycle Life Curve

Different DOD Discharge Cycle Life Curve @ 1C



Self Discharge Characteristics Curve

Different Temperature Self Discharge Curve

