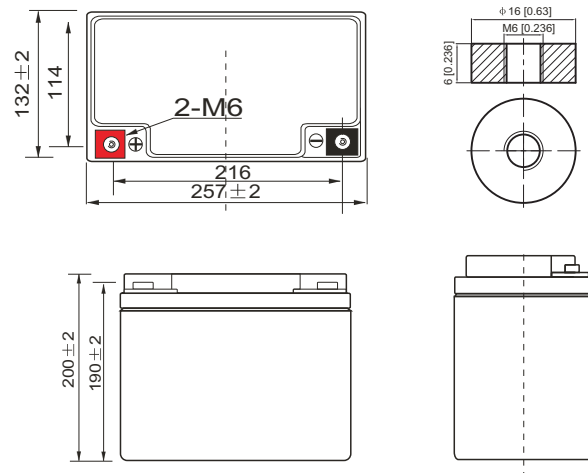


Li-FePO4 battery

LFP12-50E2 (12.8V 50Ah)

Features:

- **Long Cycle life:**
more than five times longer than SLA battery
- **Superior Safety:**
Li-FePO4 Chemistry eliminates its risk of explosion
- **Light Weight:**
About 35~40% weight of SLA battery.

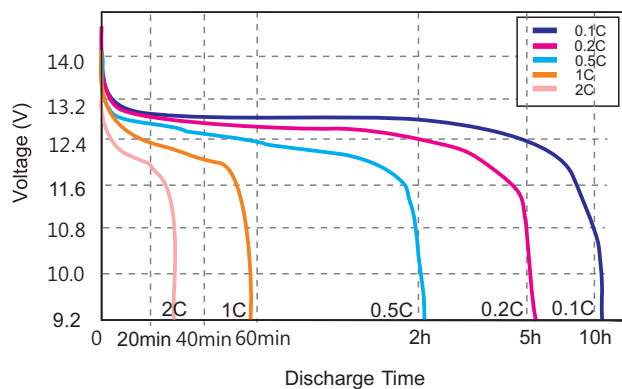


Specification

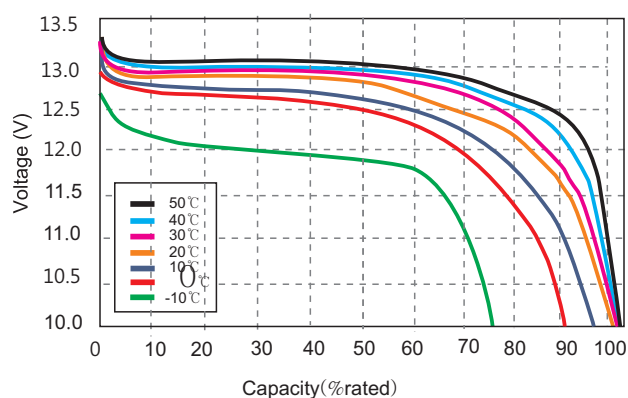
Electrical Characteristics	Nominal Voltage	12.8V
	Nominal Capacity	50Ah @0.2C with 100% DOD
	Energy	640Wh
	Internal Resistance	≤30mΩ
	Cycle Life	>2000 cycles @0.2C 100%DOD
	Months Self Discharge	<3%
	Efficiency of Charge	100% @0.5C
	Efficiency of Discharge	96~99% @1C
Standard Charge	Charge Voltage	14.6V
	Charge Mode	0.2C to 14.6V, then 14.6V to 0.02C current
	Charger Current	25A
	Max. Charge Current	50A
	Charge Cut-off Voltage	15.6V
Standard Discharge	Continuous Current	50A
	Max. Pulse Current	100A(<1s)
	Discharge Cut-off Voltage	8V (Recommend 10V)
Environmental	Charge Temperature	0 °C to 45 °C (32F to 113F) @60±25% Relative Humidity
	Discharge Temperature	-20 °C to 60 °C (-4F to 140F) @60±25% Relative Humidity
	Storage Temperature	0 °C to 40 °C (32F to 104F) @60±25% Relative Humidity
	Water Dust Resistance	IP56
Mechanical	Cell & Method	26650 4S16P
	Plastic Case	ABS
	Dimensions (in./mm.)	257*132*200mm
	Weight	7.50KG
	Terminal	M6
	Protocol (optional)	SMBus/RS485
	SOC (optional)	LED

Charging and Discharging Characteristics

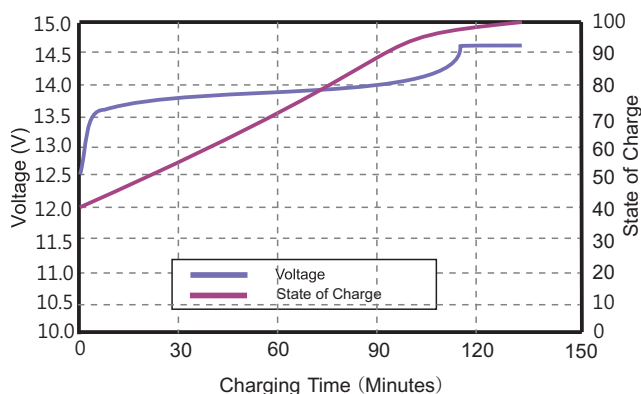
Different Rate Discharge Curve @25°C



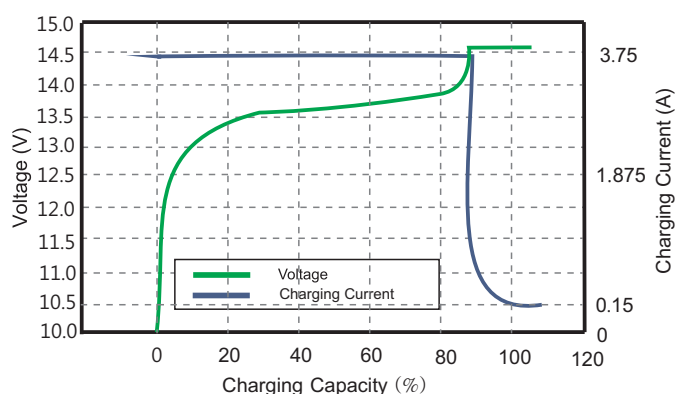
Different Temperature Discharge Curve @0.5C



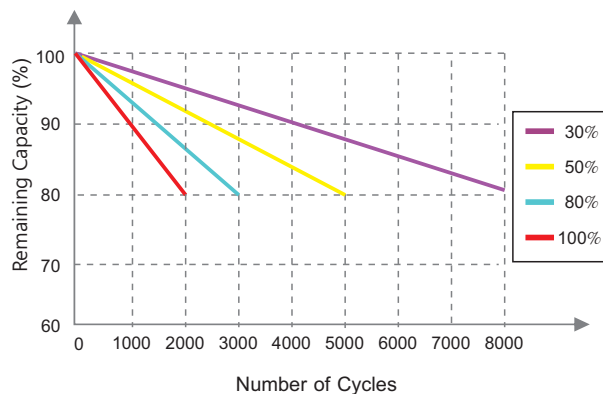
State of Charge Curve @0.5C 25°C



Charging Characteristics @0.5C 25°C



Different DOD Discharge Cycle Life Curve @0.5C



Different Temperature Self Discharge Curve

