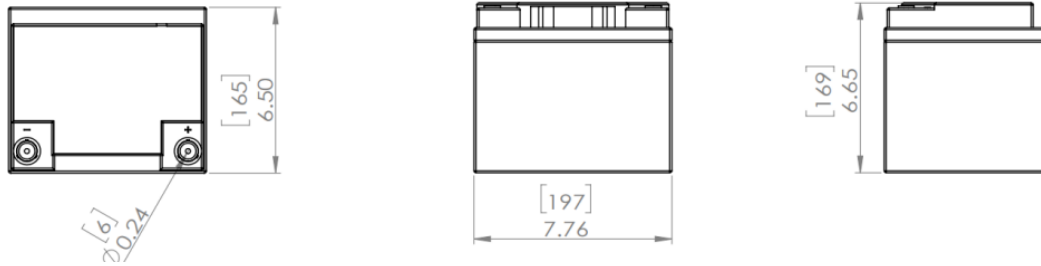


LiFePO4 Battery 12V 50Ah



- Long Cycle Life:** Offers up to 20 times longer cycle life and up to five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- Light Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.
- High Power:** Delivers twice the power of lead acid battery, even high discharge rate, while maintaining high energy capacity.
- Wide Temperature Range:** -20°C ~ +60°C
- Superior Safety:** Within the Lithium-ion battery family Lithium Iron Phosphate also known as LiFePO4 chemistry is the safest and greatly reduces the risk of explosion or combustion due to high impact, over charging or short circuit situation.
- Increased Flexibility:** Modular design enables deployment of series and parallel connected batteries.

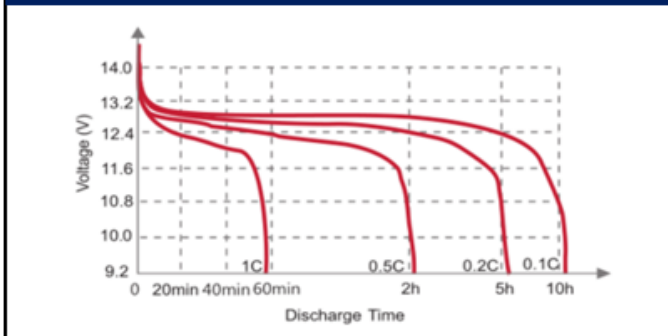
Dimensions



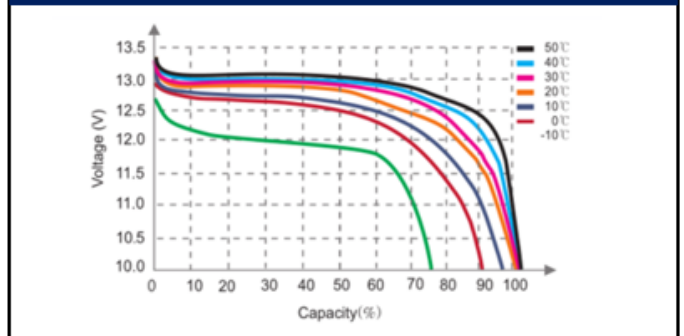
Specification

| | | | |
|----------------------------|-----------------------------------|--|---------------------------|
| Electrical Characteristics | Nominal Voltage | 12.8V | |
| | Rated Capacity | 50Ah | |
| | Energy | 640Wh | |
| | Max Series Pcs. | 4S | |
| | Max Parallel Pcs. | 4P | |
| | Circuit Protection | Over charge, Over discharge, Over current, Over temp, Short, Internal cell balancing | |
| | Internal Resistance (AC) | ≤20mΩ | |
| Charge | Charge Voltage | 14.4±0.2V (Float voltage 13.6V~14.2V) | |
| | Standard Cut-off Voltage | 10V | |
| | Charge Current | ≤25A | |
| Discharge | Max. Continuous discharge Current | 30A | |
| | Standard discharge Current | 10A(0.2C) | |
| | Peak Discharge current | 40A(3s); 100A(20ms) | |
| Environmental | Charge Temperature | 0°C~+55°C | @60±25% Relative Humidity |
| | Discharge Temperature | -20°C~+60°C | |
| | Storage Temperature | 0°C~+40°C | |
| Dimensions | Group 8D | 197±2mm * 165±2mm * 169±2mm | |
| Case / IP class | Plastic case / IP65 | | |
| Terminal | M6 | | |
| Approx. Weight | 5.8kg±0.2kg | | |
| Extended functions | / | | |

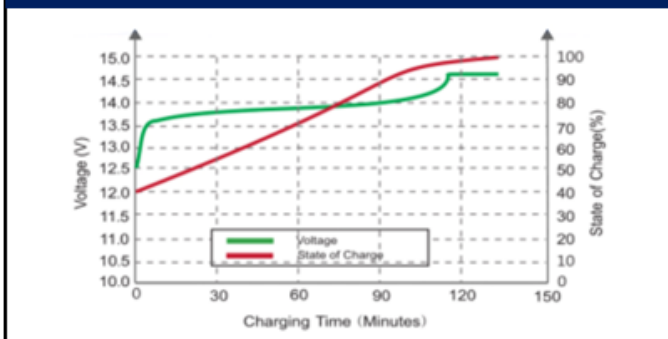
Different Rate Discharge Curve (25°C)



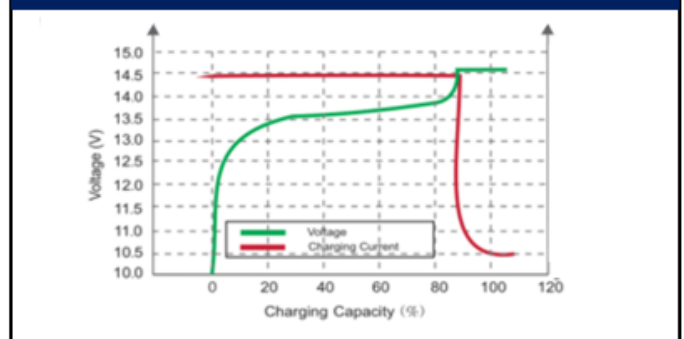
Different Temperature Discharge Curve (0.5C)



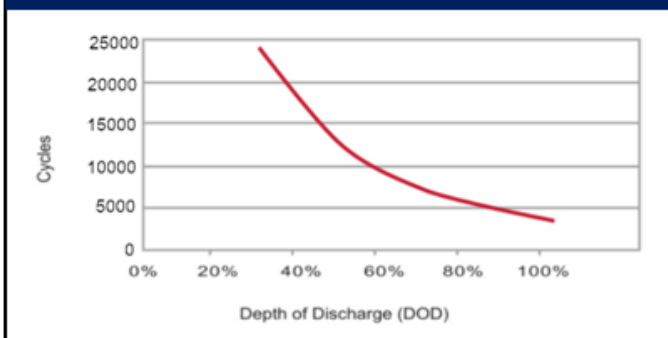
State of Charge Curve (0.5C-25°C)



Charging Characteristics (0.5C-25°C)



Different DOD Discharge Cycle Life Curve



Different Temperature Self Discharge Curve

