



Lithium Iron Phosphate (LiFePO₄) Battery

LPF24-40(25.6V,40Ah)

Product Features

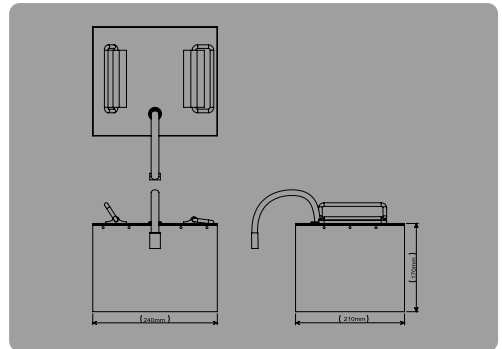
- Long Cycle Life:** LiFePO₄ delivers more than 10 times longer cycle life and five times longer float/calendar life than lead acid. Which helps to minimize the replacement costs and reduce total cost of ownership.
- Light Weight** The LiFePO₄ weighs less than half of comparable lead acid batteries, providing customers with a lighter-weight solution to optimize their product design and avoid unnecessary oversizing, which helps minimize cost and system complexity.
- High Power Capability** LiFePO₄ is designed to deliver twice the power of lead acid, including at high discharge rates, while maintaining high energy capacity to maximize product performance.
- Superb Safety** LiFePO₄ technology offers excellent abuse tolerance, establishing a foundation of safety at the cell level. In addition, multiple system-level of protection are employed to deliver greater durability and reliability compared to lead acid and competing lithium ion battery technologies.



LiFePO₄ 25.6V 40Ah Battery Pack Parameters

| | | |
|----------------------------|------------------------------|------------------------|
| Electrical Characteristics | Nominal Voltage | 25.6V |
| | Rated Capacity | 40Ah |
| | Rated Energy | 1024Wh |
| | Output Power | 1024W |
| | Alternating Inner Resistance | ≤30mΩ |
| Standard Charge | Cycle Life(0.5C 100%DOD*) | >2000 Cycles |
| | Self-Discharge Rate/month | <3%/Month |
| | Charge Voltage | 28.8V |
| | Charge Mode | CC/CV* |
| | Suggested Charge Current | ≤20A |
| Standard Discharge | Max. Charge Current | 40A |
| | Continuous Current | ≤40A |
| | Max. Pulse Current | 60 (<3S) |
| | Discharge Cut-off Voltage | 20V |
| | Charge Temperature | 0°C~45°C |
| Environmental | Discharge Temperature | -20°C~60°C |
| | Storage Temperature | 0°C~40°C |
| | Water Dust Resistance | Ip56 |
| | Cell | LPF 26650 3.2V 3200mAh |
| | Configuration | 8S13P* |
| Mechanical | Dimension | 240(L)x210(W)x175(H)mm |
| | Case Material | Metal |
| | Weight | 12.7Kg |
| | Charge Terminal | Customized |
| | Discharge Terminal | Customized |

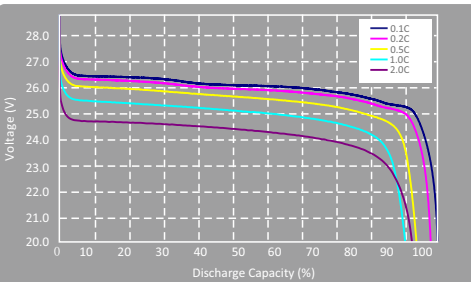
Battery Pack Size



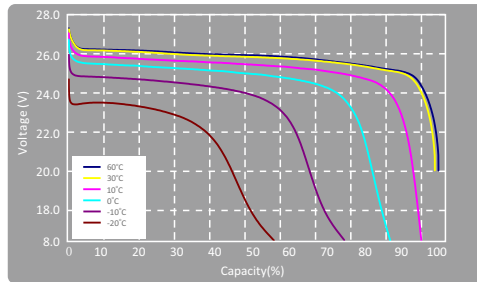
Battery Pack Application

- > Floor Cleaning Machine
- > Solar & Wind Energy Storage
- > Electric Vehicle, Electric Mobility
- > All Purpose

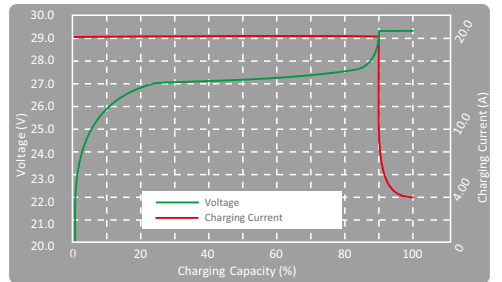
Different Rate Discharge Curve @25°C



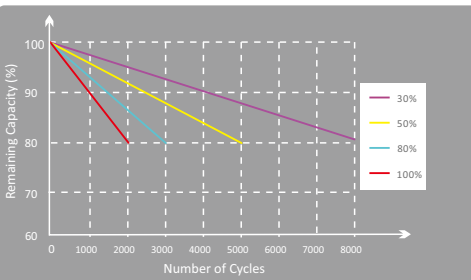
Different Temperature Discharge Curve @0.5C



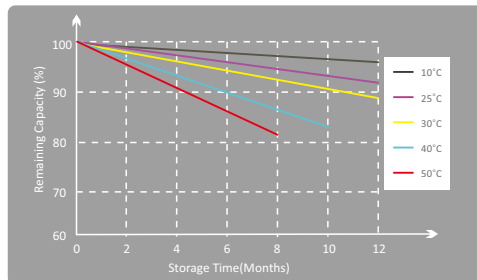
Charging Characteristics @0.5C 25°C



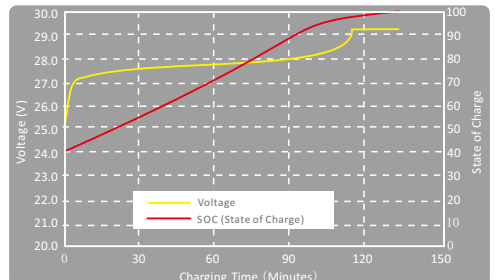
Cycle Life at Different DOD* @1C



Different Temperature Self Discharge Curve



State of Charge Curve @0.5C 25°C



* CC/CV: Constant Current / Constant Voltage
 * DOD: Depth of Discharge
 * SxP: Series & Parallel Connection