Lithium Battery
ES-48100

EverExceed®
power your applications

Key Features

- **Longer Cycle Life:** Offers up to 10 times longer cycle life and five times longer float/calendar life than a lead-acid battery, helping to minimize replacement cost and reduce total cost of ownership.
- **Faster charge:** Can fully charge the battery within 2 hours;
- **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 the lead-acid battery, even high discharge rate, while maintaining high energy capacity.
- **Wider Temperature Range:** -20°C to +60°C.
- **Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging, or short circuit situations.
- **Increased Flexibility:** This model can easily replace similar capacity lead acid battery without any extra hassle.

Application

- Energy storage system
- Solar application
- Telecom application
- Emergency lighting
- Medical equipment

Best quality lithium battery for energy storage application in best prices.

More than 3000 life cycles in 100% DOD greatly saves TCO

ES-48100

Battery Model	ES-48100
Battery Technology	LiFePO4
Nominal Voltage	48V
Nominal Capacity	100Ah
Nominal Energy	4.8KWh
Dimension (WxDxH)	483x500x177mm
Weight	50.8Kg
Boost Charge Voltage	54V
Discharge Cut-off Voltage	38-40.5V
Max Charge Current	100A
Recom. Charge Current	50A
Max Discharge Current	100A
Working Temperature Range	Discharge: -20°C to +60°C Charge: 0°C to +60°C Storage: -20°C to +60°C
Cycle Life	≥3000 Cycles @ 100% DOD @ 25°C
Communication	None
Safety Standard	CE, UN38.3
Design life	15+ years @25°C
Protection	Short circuit, over charge, over discharge, under charge, under discharge, over/under temperature etc.

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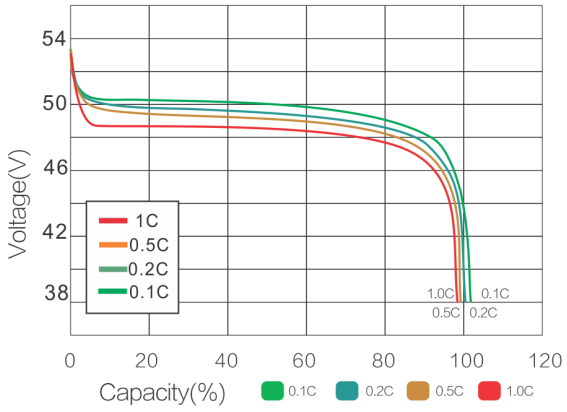
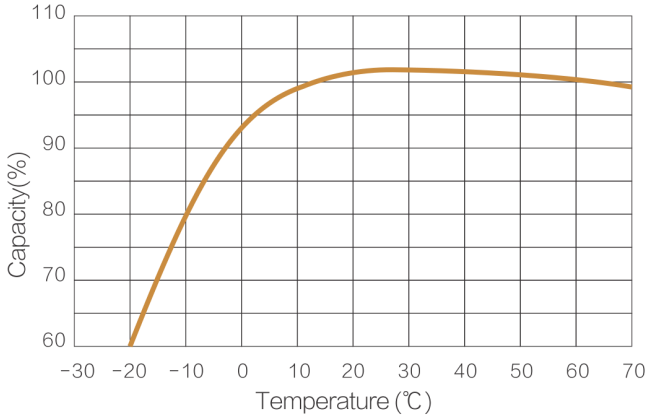
Performance Curve

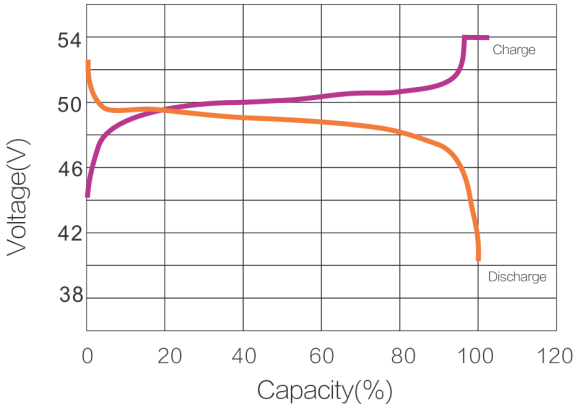
Discharge performance @25°C



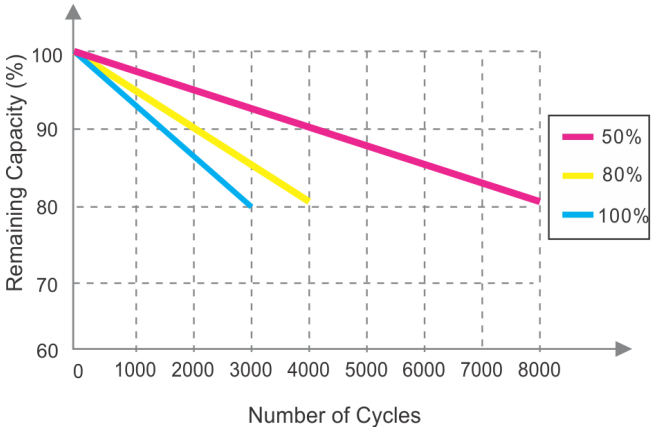
Temperature effects on capacity @ 0.2C



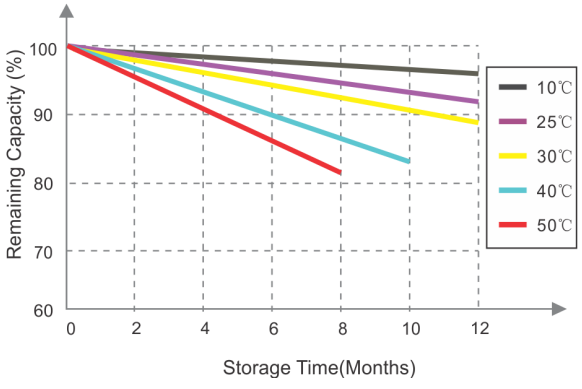
Charge and Discharge @25°C, 0.2C



Different DOD Discharge Cycle Life Curve @0.2C



Different Temperature Self Discharge Curve



Battery calendar design life
at different temperatures