

UPS Lithium Battery

ES 36-100

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 1.5 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:** Modular design enables deployment of up to four batteries in series and up to ten batteries in parallel.

Application

- ◆ CATV
- ◆ UPS
- ◆ Energy storage system
- ◆ Emergency lighting
- ◆ Medical equipment

EverExceed ES 36-100 LiFePO4 (lithium ion phosphate) battery is a new environment friendly backup power module specially designed for the CATV/Broadband UPS power systems. With an advanced life span, extra compact size, very light weight and strong environmental working conditions, it is the ideal solution for the outdoor harsh environment found in the field, where the CATV UPSs are installed and used.

Perfectly match the famous Alpha broadband UPS solution, easily drop-in replacement for Alpha's lead-acid battery without any additional hassle.



For reference

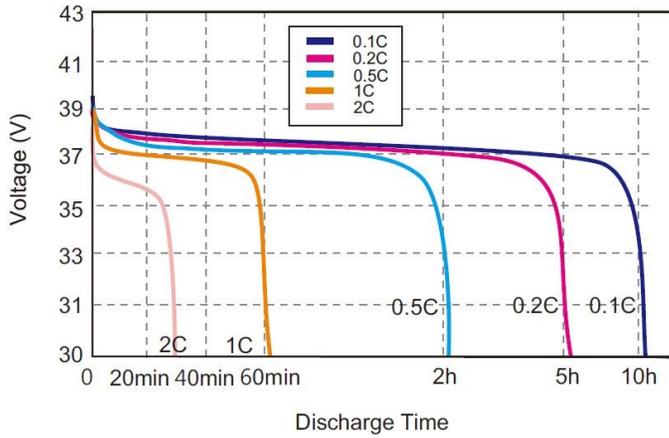
Battery Model	ES 36-100
Battery Technology	LiFePO4
Nominal Voltage	38.4V
Nominal Capacity	100Ah
Nominal Energy	3840Wh
Dimension (WxDxH)	330x330x250mm
Weight	32Kg
Boost Charge Voltage	43.2V
Discharge Cut-off Voltage	30V
Max Charge Current	100A
Recom. Charge Current	50A
Max Discharge Current	100A
Working 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	RS485
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.
Optional Function	GPS/Gyroscope/SNMP

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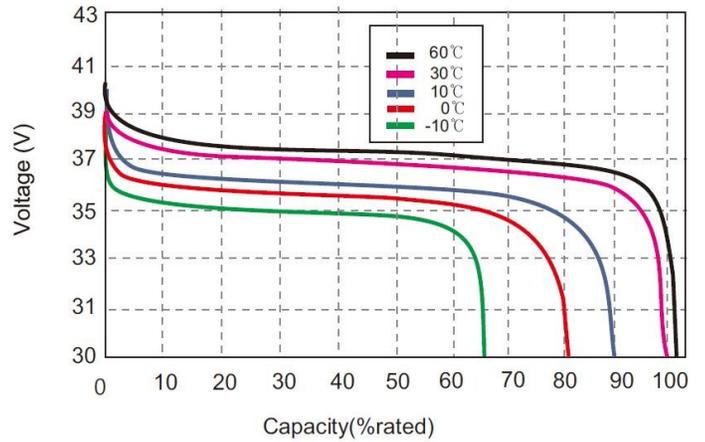
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Performance Curve

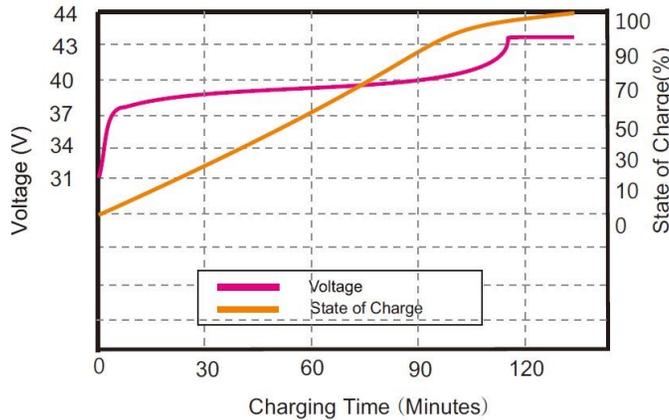
Different Rate Discharge Curve @25°C



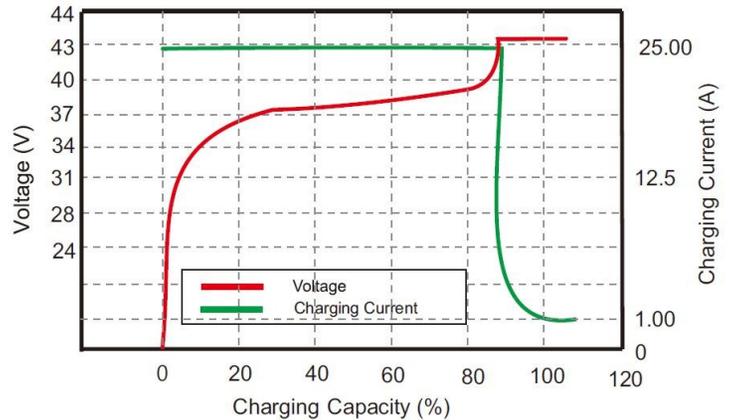
Different Temperature Discharge Curve @0.5C



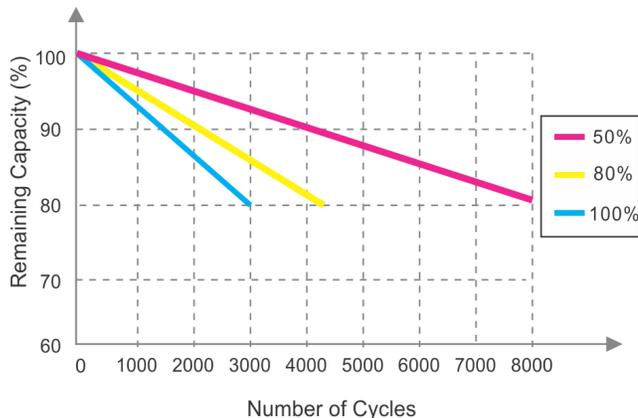
State of Charge Curve @0.5C 25°C



Charging Characteristics @0.5C 25°C



Different DOD Discharge Cycle Life Curve @0.2C



Different Temperature Self Discharge Curve

