

UPS Lithium Battery

ES 36-50/100/150

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 series 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.



ES 36-50



ES 36-100



ES 36-150

UPS Lithium Battery

ES 36-50/100/150

EverExceed[®]
power your applications

Technical Parameter

Battery Model	ES 36-50	ES 36-100	ES 36-150
Battery Technology		LiFePO4	
Nominal Voltage		38.4V	
Nominal Capacity	50Ah	100Ah	150Ah
Nominal Energy	1920Wh	3840Wh	5760Wh
Dimension (WxDxH)	314x172x220mm	324x343x220mm	324x512x220mm
Weight	18Kg	35kg	52kg
Boost Charge Voltage		43.2V	
Discharge Cut-off Voltage		30V	
Max Charge Current	50A	100A	150A
Recom. Charge Current	25A	50A	75A
Max Discharge Current	50A	100A	150A
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 / RS232	
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.		
Available output (optional)		12Vdc, 24Vdc	



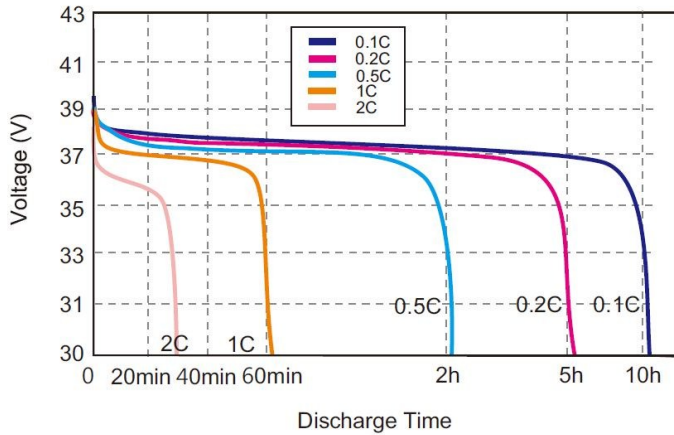
UPS Lithium Battery

ES 36-50/100/150

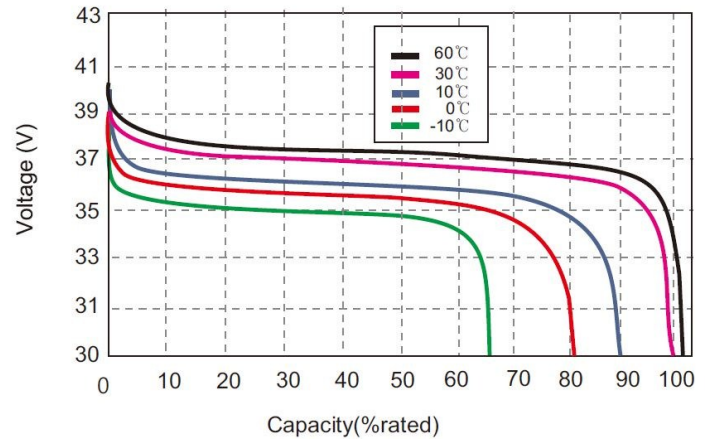
EverExceed[®]
power your applications

Performance Curve

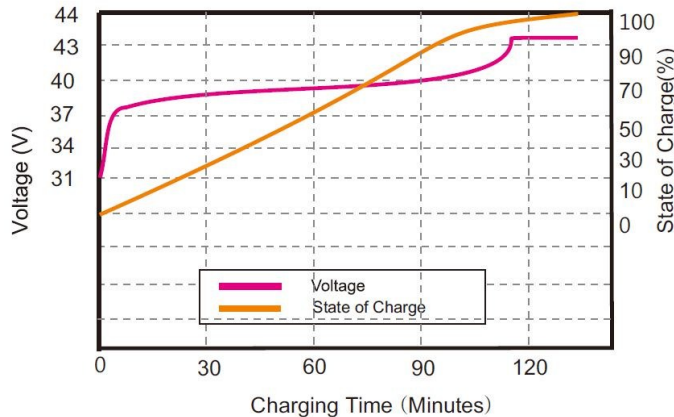
Different Rate Discharge Curve @25°C



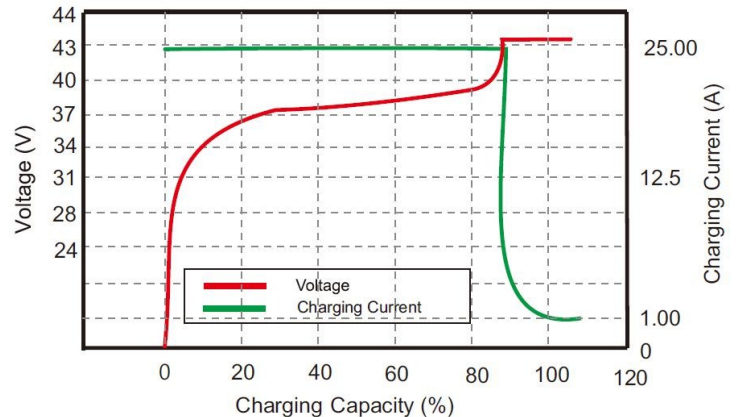
Different Temperature Discharge Curve @0.5C



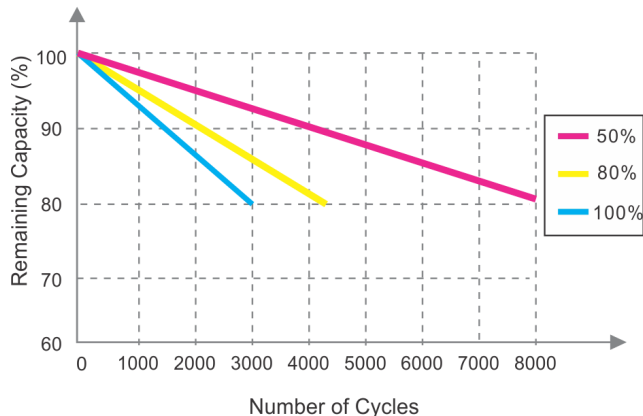
State of Charge Curve @0.5C 25°C



Charging Characteristics @0.5C 25°C



Different DOD Discharge Cycle Life Curve @0.2C



Different Temperature Self Discharge Curve

