

## LW-Life-EL-12.8V100AH Lithium Ion Phosphate(LiFePO4) Battery

### Features of lithium battery

**Longer Cycle Life:** Offers up to 20 times longer cycle life and five times longer float/calendar life than lead acid battery, helping to minimize replacement cost and reduce total cost of ownership.

**Lighter Weight:** About 40% of the weight of a comparable lead acid battery. A 'drop in' replacement for lead acid batteries.

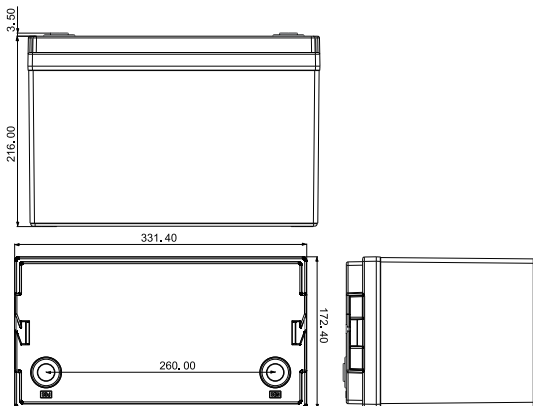
**Higher Power:** Delivers twice power of lead acid battery, even high discharge rate, while maintaining high energy capacity.

**Wider Temperature Range:** -10°C~50°C.

**Superior Safety:** Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact, overcharging or short circuit situation.



### Physical Dimension-mm



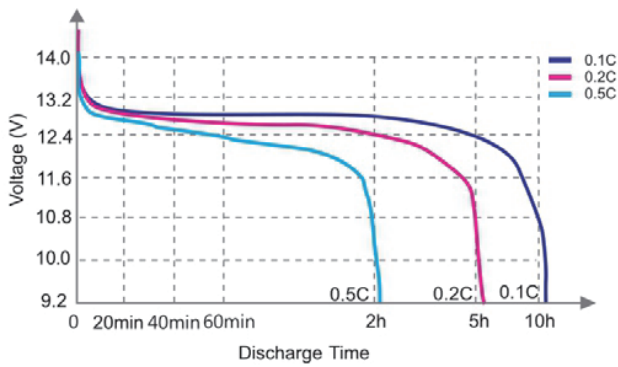
### Typical Applications

- ✧ Suitable for Lawn and Garden Tools
- ✧ Parking Lot
- ✧ Garage
- ✧ Warehouse Automatic Door Power Supply
- ✧ Home Use Car
- ✧ Marine Backup Power Supply
- ✧ Photovoltaic 12V, 24V, 48V Off-grid Applications
- ✧ Telecom Base Station Energy Storage
- ✧ Electric Wheelchairs
- ✧ Scooters
- ✧ Golf Cart
- ✧ Parking Air Conditioning Power Supply

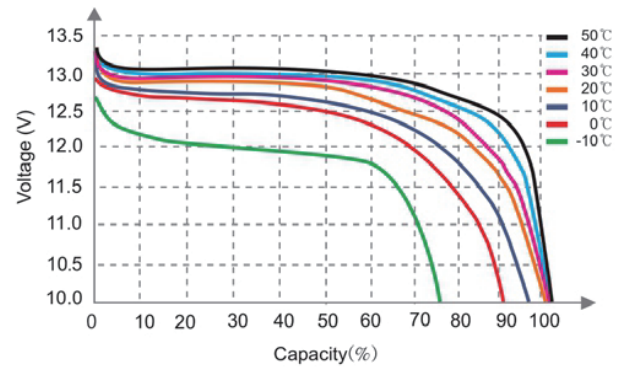
### Specification

MODEL	LW-Life-EL-12.8V100AH
Cell	Lithium iron phosphate
Nominal voltage	12.8V
Nominal capacity	100Ah
Energy	1280Wh
Charging Voltage	14.6V
Floating Voltage	14V
Recommend Cutoff Voltage	12V
Cutoff Voltage	11.2V
Max Charging Current	100A (Recommend 20A)
Max Discharging Current	100A (Recommend 20A)
Series parallel mode	4S1P
Operating temperature	Charging 0~+55   Humidity 15%-75%   Storage 10~+50
Protection	Electronic circuit breaker, BMS voltage protection, current limiting
Water dust resistance	IP65
Net Weight	12.02Kg
Product Size	≈331*172*216mm

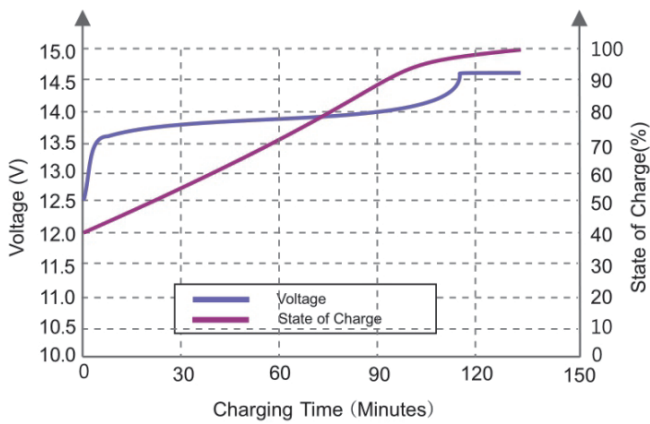
### Different Rate Discharge Curve (25°C)



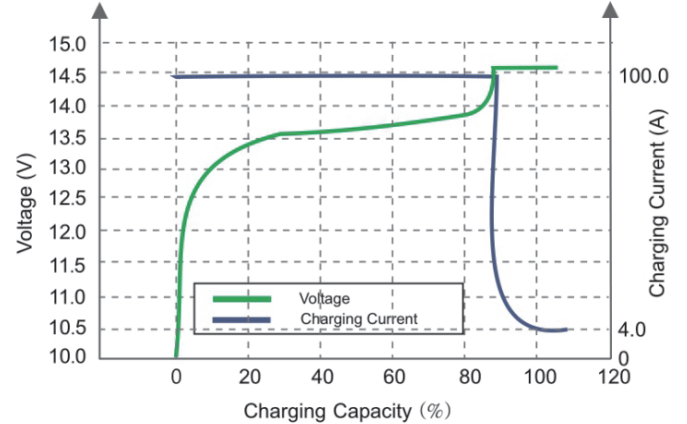
### Different Temperature Discharge Curve (0.5C)



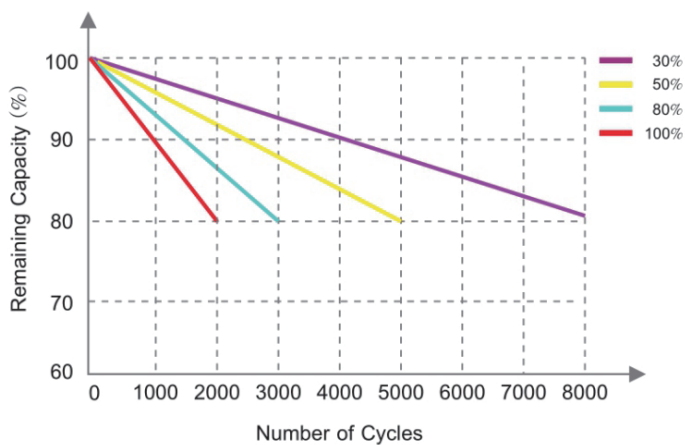
### State of Charge Curve (0.5C, 25°C)



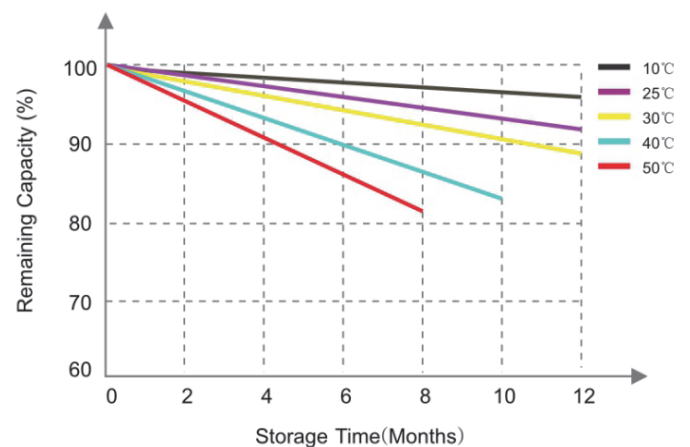
### Charging Characteristics (0.5C, 25°C)



### Different DOD Discharge Cycle Life Curve (0.5C)



### Different Temperature Self Discharge Curve



- Do not use lead-acid chargers and roadside charging stations for lithium batteries.
- Do not touch positive and negative terminals to prevent short circuits.
- Avoid overvoltage and over-power usage.
- Recharge the battery every 3 months if not used for a long time.
- Keep away from children and fire sources during charging, usage, and storage.
- Stop using a wet battery to avoid consequences.
- Do not disassemble, dissect, get wet, drop, squeeze, or crush the battery.

Stop the battery operation immediately to secure the battery safety when environmental temp is over working temp.  
If battery is at high temperature usually, it will impact battery's performance.

