

# Sohigh LiBAT-100AH-25.6V

Solar LiFePO4 Battery

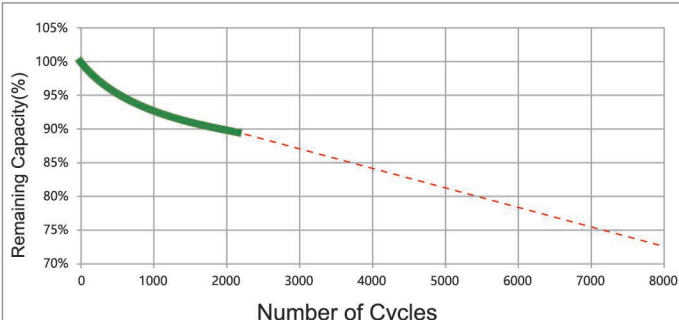
**Sohigh Solar**  
High Technology, High Quality



## Technical Features

- **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** : -20°C-60°C.
- **Superior Safety** : Lithium Iron Phosphate chemistry eliminates the risk of explosion or combustion due to high impact , overcharging or short circuit situation.

## Cycle Life Curve



## Application

- Electric vehicles, electric mobility
- Solar Wind energy storage system
- UPS, backup power
- Telecommunication
- Medical equipment
- Lighting

## Technical Parameter

|                            |                           |                                                       |
|----------------------------|---------------------------|-------------------------------------------------------|
| Electrical Characteristics | Nominal Voltage           | 25.6V                                                 |
|                            | Nominal Capacity          | 100Ah (C <sub>s</sub> , 25°C)                         |
|                            | Energy                    | 2560Wh                                                |
|                            | Internal Resistance       | ≤200mΩ                                                |
|                            | Cycle Life                | >3000 cycles @1C 100%DOD                              |
|                            | Months Self Discharge     | <3%                                                   |
|                            | Efficiency of Charge      | 100% @0.2C                                            |
|                            | Efficiency of Discharge   | 96~99% @1C                                            |
| Standard Charge            | Charge Voltage            | 29.2±0.2V                                             |
|                            | Charge Mode               | 0.2C to 29.2V, then 29.2,charge current 0.02C(CC/CV)  |
|                            | Charger Current           | 20A                                                   |
|                            | Max.Charge Current        | 100A                                                  |
|                            | Charge Cut-off Voltage    | 29.6V±0.2V                                            |
| Standard Discharge         | Continuous Current        | 100A                                                  |
|                            | Max.Charge Current        | 300A(<3s)                                             |
|                            | Discharge Cut-off Voltage | 20V                                                   |
| Environmental              | Charge Temperature        | 0°C to 45°C (32F to 113F) @60±25% Relative Humidity   |
|                            | Discharge Temperature     | -20°C to 60°C (-4F to 140F) @60±25% Relative Humidity |
|                            | Storage Temperature       | 0°C to 40°C (32F to 104F) @60±25% Relative Humidity   |
|                            | Water Dust Resistance     |                                                       |
| Mechanical                 | Cell & Method             | 3.2V50AH-8S2P                                         |
|                            | Plastic Case              | ABS                                                   |
|                            | Dimensions (in./mm.)      | 522*238*225 mm                                        |
|                            | Terminal                  | M8                                                    |
|                            | Protocol (optional)       | NO                                                    |
|                            | BMS                       | 8S100A                                                |

NOTICE:Manual measurement, product specifications and dimensions may have errors, subject to actual receipt.