# Lithium 24V -100A/H

## Features of LiFePO4 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: -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.









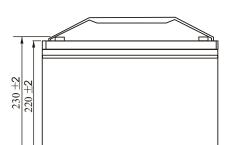


Photovoltaic



 $240 \pm 2$ 

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520± 2

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**Energy Storage** 

Lithium-lon

Intelligent Software

Home Energy

**Specifications** 

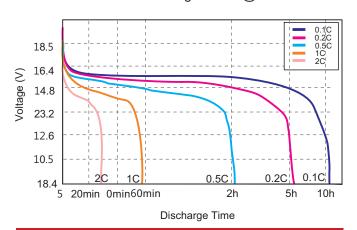
| •                  |                           |   |
|--------------------|---------------------------|---|
|                    | Nominal Voltage           | 25.6V   |
|                    | Nominal Capacity          | 100Ah   |
|                    | Energy                    | 2560Wh  |
| Electrical         | Internal Resistance       | <b>≤60m</b> Ω   |
| Characteristics    | Cycle Life                | >2000 cycles @1C 100%DOD  |
|                    | Months Self Discharge     | <3%   |
|                    | Efficiency of Charge      | 97% @0.5C   |
|                    | Efficiency of Discharge   | 96~99% @1C  |
| Standard Charge    | Charge Voltage            | 29. 2±0. 2V   |
|                    | Charge Mode               | 0.5C to29.2V,then 29.2V,charge current to 0.02C(CC/CV)  |
|                    | Charger Current           | 50A   |
|                    | Max. Charge Current       | 100A  |
|                    | Charge Cut-off Voltage    | 30.0±0.2V   |
| Standard Discharge | Continuous Current        | 50A   |
|                    | Max. Pulse Current        | 100A  |
|                    | Discharge Cut-off Voltage | 21.6V   |
| Environmental      | Charge Temperature        | 0 $^{\circ}$ C to 45 $^{\circ}$ C (32F to 113F) @60 $\pm$ 25% Relative Humidity                   |
|                    | Discharge Temperature     | -20 $^{\circ}\mathrm{C}$ to 60 $^{\circ}\mathrm{C}$ (-4F to 140F) @60 $\pm$ 25% Relative Humidity |
|                    | Storage Temperature       | 0 $^{\circ}$ C to 40 $^{\circ}$ C (32F to 104F) @60 $\pm$ 25% Relative Humidity                   |
|                    | Water Dust Resistance     | IP56  |
| Mechanical         | Cell & Method             | Square 8S1P   |
|                    | Plastic Case              | ABS   |
|                    | Weight (lbs./kg.)         | 26kg(57.62lbs)  |
|                    | Terminal                  | M8  |

**LI-24-100** 



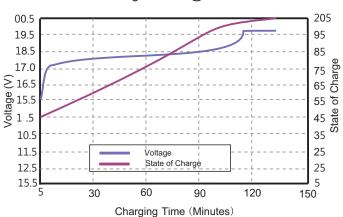
## **Different Rate Discharge Curve**

Different Rate Discharge Curve @25℃



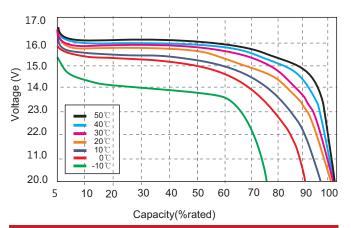
## **State of Charge Curve**

State of Charge Curve @0.5C 25 °C



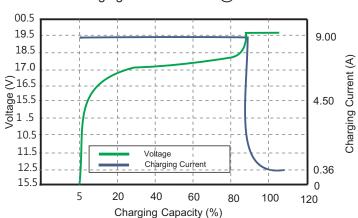
# **Different Temperature Discharge Curve**

Different Temperature Discharge Curve @0.5C



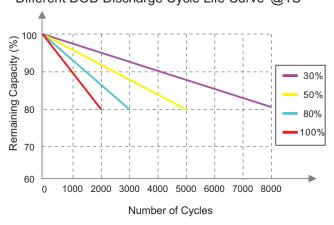
# **Charging Characteristics**

Charging Characteristics @0.5C 25 ℃



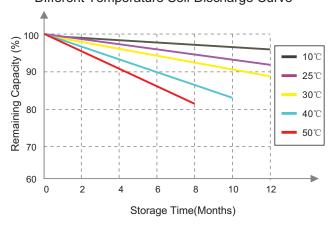
## **Cycle Life Curve**

Different DOD Discharge Cycle Life Curve<sup>3</sup> @1C



# **Self Discharge Characteristics Curve**

Different Temperature Self Discharge Curve



Specifications and graphs are indicative and subject to change due to variances in manufacturing

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