

S-12.8V 120Ah

LiFePO4 Battery

HBL's S – Series deep cycle rechargeable lithium batteries are highly reliable, long-lasting, and provide more energy than the traditional Lead Acid batteries. The lithium battery packs are compact, lightweight, and easy to install. The quick charge and discharge capability make it an ideal choice for solar and other renewable energy applications.



Key Features

- ⦿ High quality LFP cells
- ⦿ High rate charge/discharge current @ 1C/1C
- ⦿ Long design life up to 15+years @25°C
- ⦿ High efficiency between charge and discharge
- ⦿ Cell Protection using fixed PCM)

Specification

| Model | | HBL-iON-12.8V-120Ah |
|----------------------------|-----------------------------------|---|
| Electrical Characteristics | Nominal Voltage | 12.8V |
| | Nominal Capacity | 120 Ah @ 0.2C Rate to ECV of 2.5V |
| | Energy | 1536Wh |
| | Cycle Life | ≥3000 cycles @80% DOD, 25°C |
| | Self-Discharge (28 days) | ≤3%, @25°C |
| | Efficiency of charge | ≥98% |
| | Efficiency of Discharge | ≥98%@ 0.2C to ECV of 2.5V ≥96%@ 0.5C" |
| Charge | Charge Voltage | 14.60V±0.1V |
| | Charging Method | Charge current of 0.2C up to 14.6V, then 0.02c after reaching 14.6V (CC/CV) |
| | Max. Charge Current | 120A (1C) |
| | Charge Cut-off Voltage | 15.0V±0.2V |
| Discharge | Max. Continuous Discharge Current | 120A (1C) |
| | Discharge Cut-off Voltage | 10V±0.2V |
| Environmental | Charge Temperature Range | 0°C to 45°C |
| | Discharge Temperature Range | -20°C to +60°C |
| | Optimum Operation Temperature | 20°C to 25°C |
| | Storage Temperature | -20°C to +25°C |
| | Humidity | 5%≤RH≤85% |
| | Ingress protection rating | - |
| Mechanical | MS Module Dimensions | L:145mm, W:340mm, H:180mm |
| | Weight(kgs) | 14.5 |
| BMS / PCM | Protection | Over Voltage, Under Voltage, Short Circuit, Over Temperature, Over Charge current, Over Discharge current |

*Note: Features and Specifications are subject to change without notice due to continual improvement in technology