

i-POWER

BATTERY DATASHEET

IPLIF-348150Z1



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IPLIF-348150Z1 is 48V150Ah Lithium iron phosphate battery module which designed for energy storage power supply system and Telecom back-up power supply application. This battery module integrated with intelligent BMS inside, has big advantages on safety, cycle life, energy density, temperature range and environmental protection. This product specification describes the type, size, structure, electro chemistry performance, service life, and BMS



PRODUCT OVERVIEW

Advantages

The battery module consists of single LFP cells, wire, BMS and container.

- Packed with high performance LFP single cell, long life, safety and wide temperature range
- High energy density, small size, light weight, no pollution;
- Packing with single cell container, fire retardant wire and laser welding, stable and safe.
- Built-in BMS, with battery voltage, current, temperature and health management.
- LED indicate the battery SOC and operating status.
- Flexible customization of dimensions
- More than 15 years design life

Tabel Detail Specification

| Model/Parameters | SPECIFICATION |
|------------------------------|---|
| Rated Voltage | 48V |
| Rated Capacity (0.2C, @25°C) | 150Ah |
| Rated Energy | 7200Wh |
| Cell & Pack | LiFePO4 Cell |
| Output Voltage Range | 42.0V ~ 53.5V |
| Charging Voltage | 52.5V ~ 53.5V, CC-CV (Recommended: 52.5V) |
| Cut-off Voltage | 42.0V |
| Max. Constant Current | 100A/100A |
| Recommended Charging Current | <100A, Best @ 30A |

Contact Us

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Tabel Detail Specification

| Model/Parameters | SPECIFICATION |
|-----------------------------|---|
| Recommended Charging Type | CC-CV until current < 0.02C |
| Communication | RS485 |
| Internal Resistance | <10mΩ |
| Capacity Efficiency | ≥99.5% |
| Built-in BMS | Yes |
| Over-charge Protection | Module > 57.0V or Cell > 3.8V |
| Over-discharge Protection | Module < 40.0V or Cell < 2.0V |
| Over-current Protection | Charging: >102A (delay 10s), >120A (delay 3s) Discharging: >102A (delay 10s), >120A (delay 3s) |
| Short Circuit Protection | Integrated |
| Cell Balance | Passive, 150mA |
| Over-temperature Protection | Charging: <0°C or >70°C Discharging: <-20°C or >75°C |
| Case Material | Metal |
| Dimensions (LWH, mm) | 442 × 530 × 133 |
| Terminal Type | M6 |
| Weight | 61 ±1 kg |
| Humidity | 5% ~ 95% relative humidity |
| Charging Temperature | 0°C ~ 45°C |
| Discharging Temperature | -20°C ~ 65°C |
| Storage Temperature | -20°C ~ 55°C |
| Cycle Life | 80% DOD > 6000 times (@0.5C, 25°C) |
| Design Life | >15 years |

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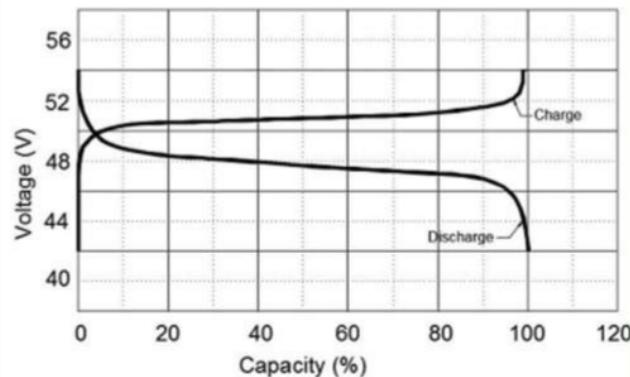
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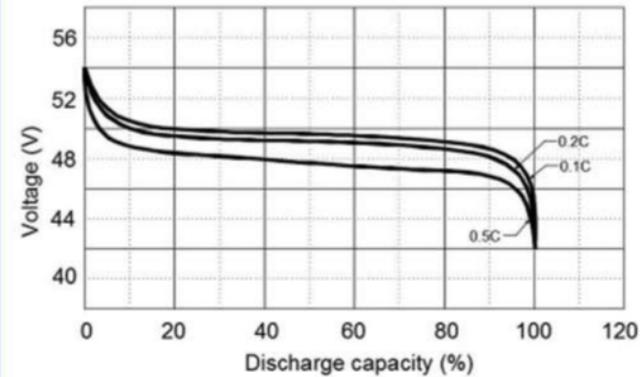
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Performance Curve

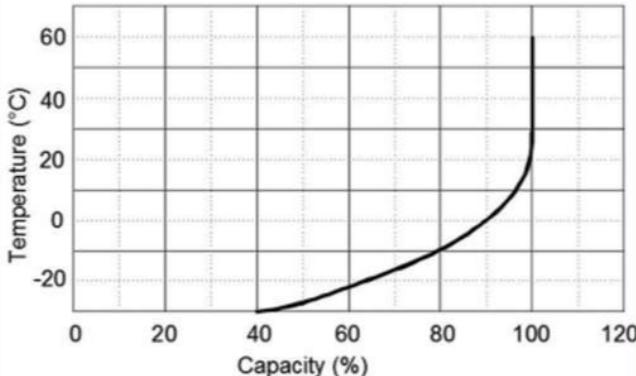
Charge & Discharge curve with 0.5C @25°C



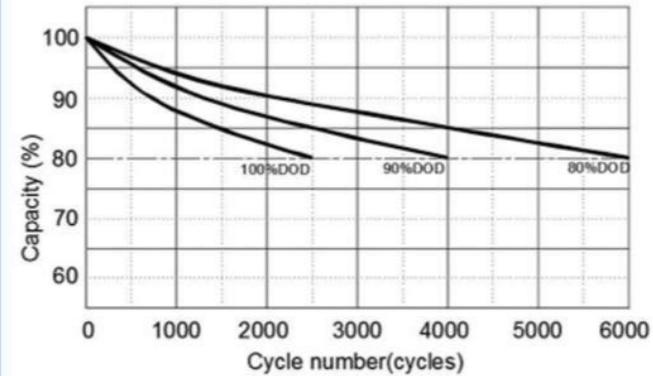
Discharge performance with different rate @25°C



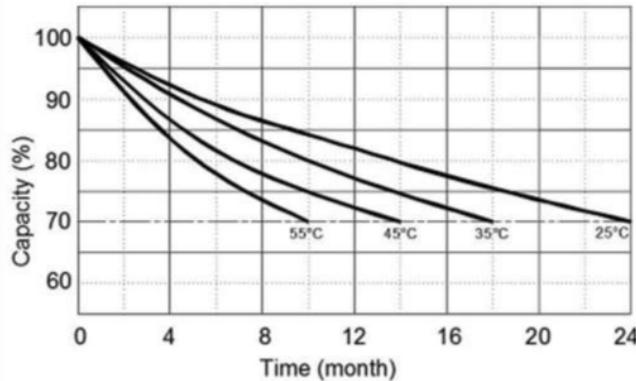
Discharge capacity with different temperature @ 0.5C



Cycle life with DOD @0.5C, 25°C



Self-discharge @ different temperature



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