

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

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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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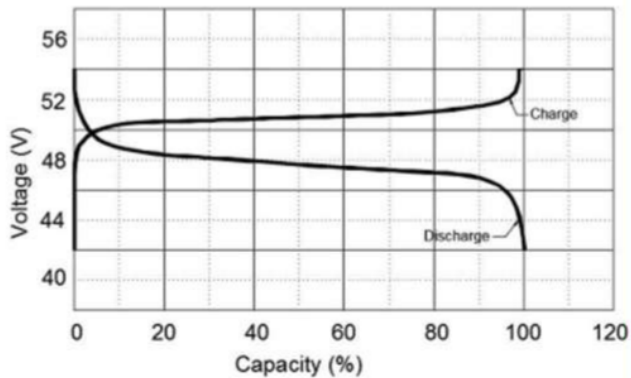
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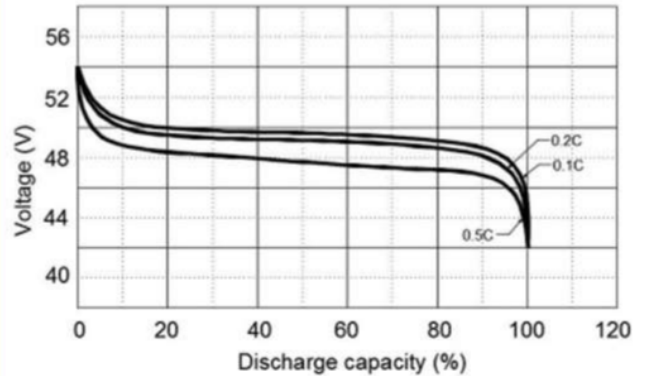
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Performance Curve

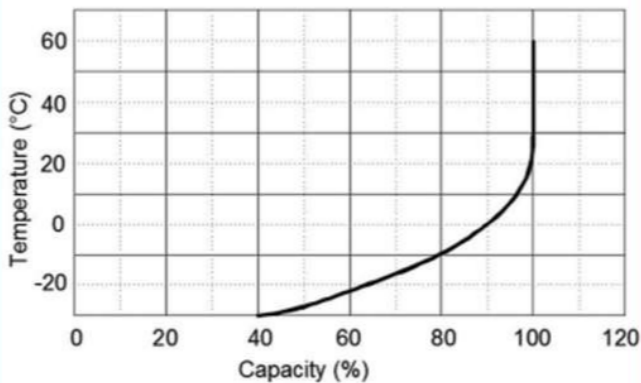
Charge & Discharge curve with 0.5C @25°C



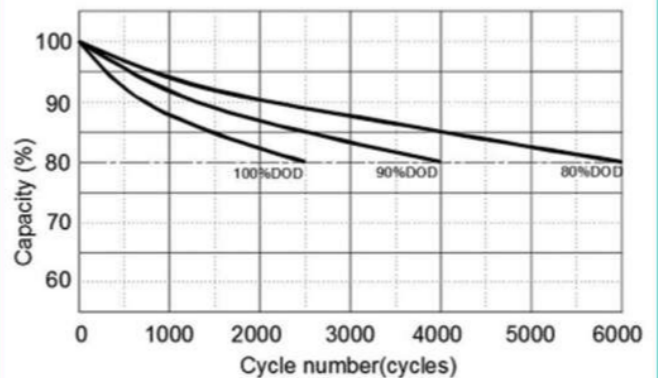
Discharge performance with different rate @25°C



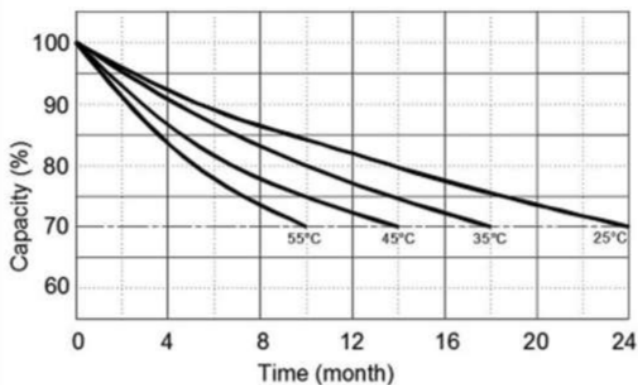
Discharge capacity with different temperature @ 0.5C



Cycle life with DOD @0.5C, 25°C



Self-discharge @ different temperature



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