

SmartPower 48V150Ah

SSIFP48150 LFP Battery Module

SSIFP48150, a powerful 48V LiFePO₄ battery product, has been especially designed to provide backup power energy storage solutions. Its modular design enables parallel installation meeting also the needs for larger power back up.

Benefits

- Increased energy in given space
- Easy installation and upscaling
- High operational reliability
- Optimized supervision strategy through remote control/diagnostic
- Excellent long life time
- Built-in intelligent BMS to protect the battery pack at any time and prolong its service life

Standards

a. Product

- IEC 60950
- IEC 62321
- IEC 62133
- UN 38.3
- UL 1642
- UL 1973

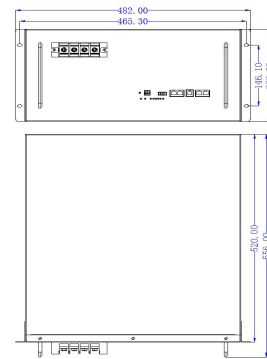
b. MS certification

- ISO 9001
- ISO 14001
- OHSAS 18001

Specifications

Nominal Characteristics		
Battery Model	SSIFP48150	
Nominal Voltage	48V	
Typical Capacity	150Ah(25°C,0.2C)	
Typical Energy	7200 Wh	
Volumetric Energy Density	134.58 Wh/dm ³	
Gravimetric Energy Density	120 Wh/kg	
Dimensions	Width	482mm
	Height	222mm(5U)
	Depth	520mm
Reference Weight	60 Kg	
Electrical Characteristics		
Voltage Window	40.5~54.0V	
Charge Voltage Range	52.5~54.0V	
Max. Permanent Discharge Current	100A	
Max. Permanent Charge Current	100A	
Faradic Charge Efficiency	99% (+20°C)	
Energy Charge Efficiency	94% (+20°C)	
Communication Interface (optional feature)	Modbus/SNMP/TACP	
Additional Features (optional feature)	LCD Display	
Operation Environment		
Charge Temperature	0°C to +55°C (Recommend: +20°C to 30°C)	
Discharge Temperature	-20°C to +60°C	
Storage Temperature	-20°C to +60°C	
Protection Class	IP20	

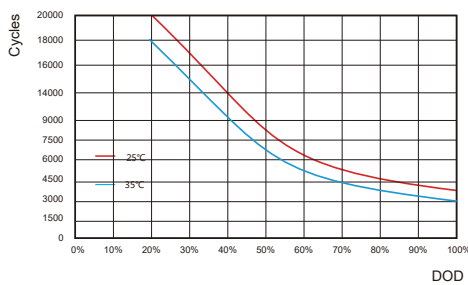
Drawing



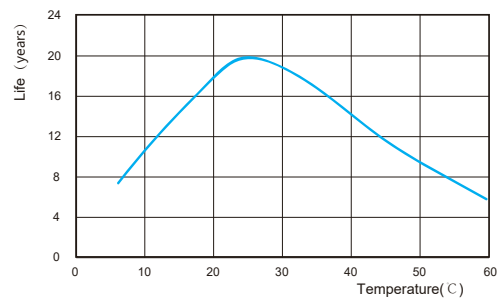
Discharge Data

Constant Current Discharge Data(25°C)							
Voltage/V	Current/A	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C
	Time/h						
45.0		9.560	4.902	3.283	2.442	1.943	1.601
43.5		10.017	4.993	3.339	2.475	1.978	1.634
42.0		10.094	5.041	3.374	2.517	2.008	1.654
40.5		10.201	5.090	3.390	2.533	2.021	1.674

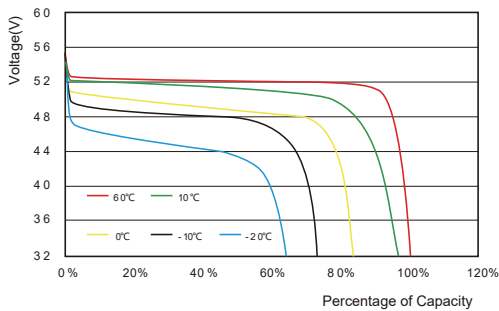
Performance Curve



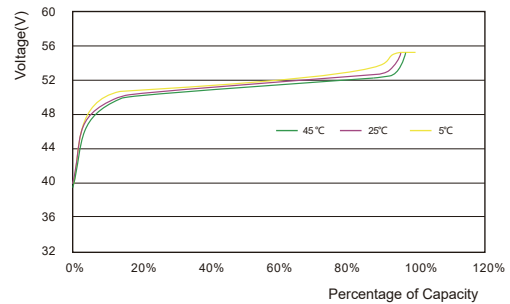
Cycle Life vs. Depth of Discharge (DOD)



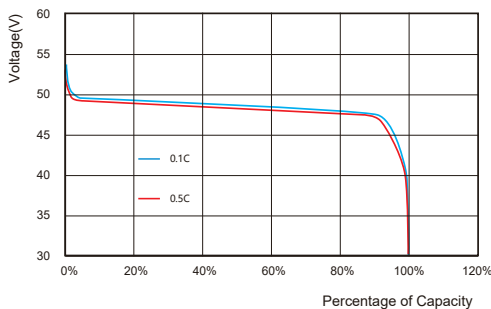
Calendar Life at Different Temperature



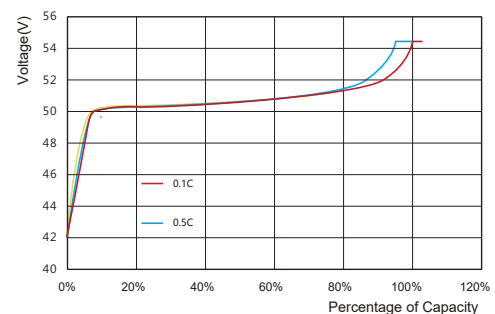
Discharge Curve at Different Temperature



Charge Curve at Different Temperature



Discharge Curve at Different Rate (25°C)



Charge Curve at Different Rate (25°C)

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