

# SmartPower 48V150Ah

## SCIFP48150 lithium-ion battery system

SCIFP48150, a powerful 48V LiFePO<sub>4</sub> battery product, has been especially designed to provide power backup for remote or outdoor telecom sites, off-grid, on-grid and household usage energy storage systems. 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

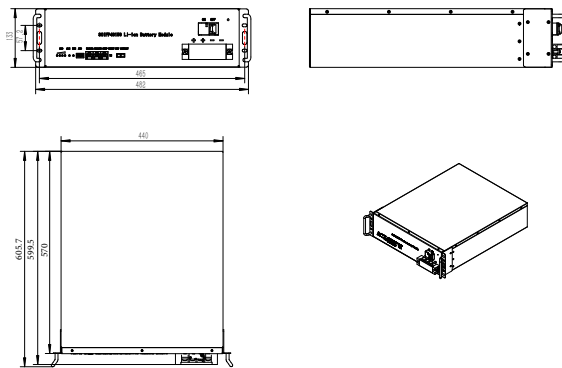
#### a. Product

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

#### b. MS certification

- ISO 9001
- ISO 14001
- OHSAS 18001

### Drawing



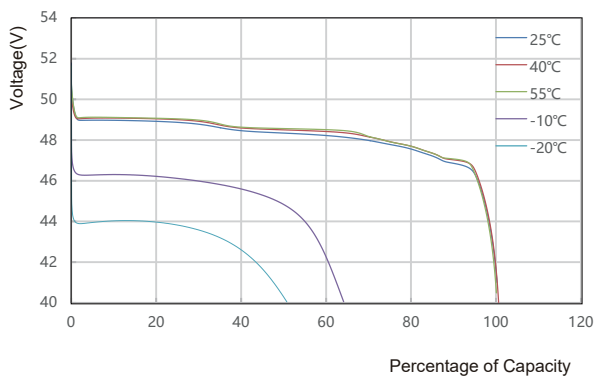
### Specifications

Nominal Characteristics		
Battery Model		SCIFP48150
Nominal Voltage		48V
Typical Capacity		150Ah(25°C,0.2C)
Typical Energy		7200 Wh
Volumetric Energy Density		215.8 Wh/dm <sup>3</sup>
Gravimetric Energy Density		125.2 Wh/kg
Dimensions	Width	440mm
	Height	133mm(3U)
	Depth	570mm
Reference Weight		57.5Kg
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
Discharge Temperature		-20°C to +60°C
Storage Temperature		-20°C to +60°C
Protection Class		IP20

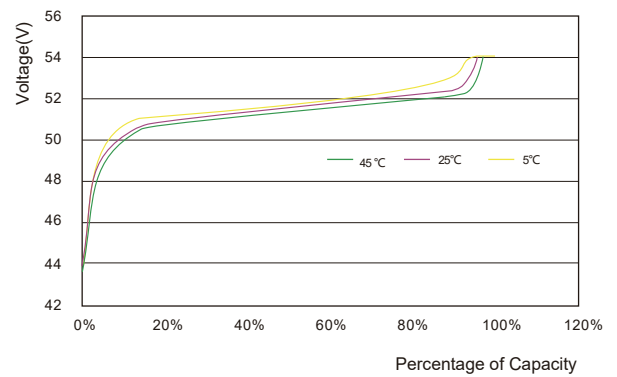
## Discharge Data

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

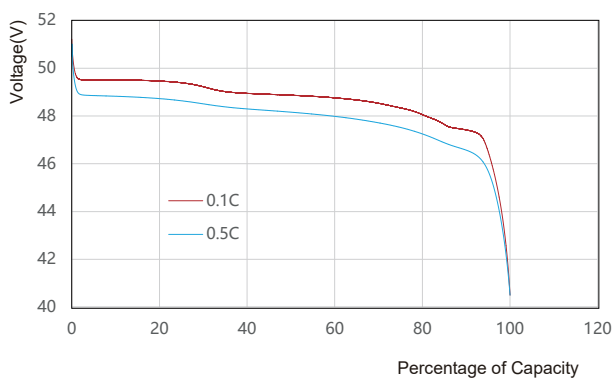
## Performance Curve



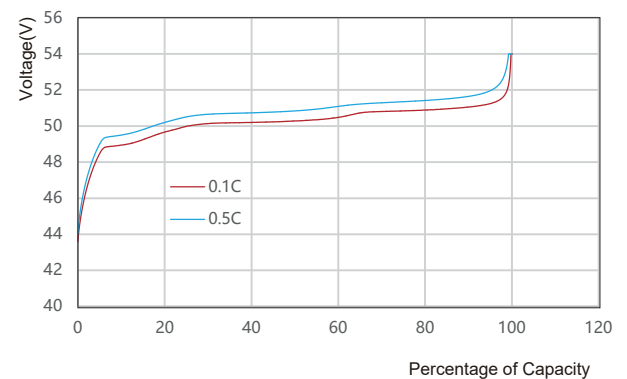
Discharge Curve at Different Temperature



Charge Curve at Different Temperature



Discharge Curve at Different Rate (25°C)



Charge Curve at Different Rate (25°C)

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