

SmartPower 48V150Ah

SCIFP48150U lithium-ion battery system

SCIFP48150U, a powerful 48V LiFePO₄ 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

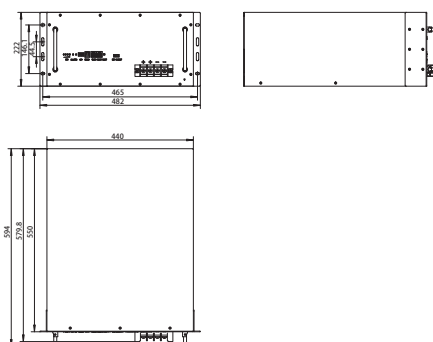
a. Product

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

b. MS certification

- ISO 9001
- ISO 14001
- OHSAS 18001

Drawing



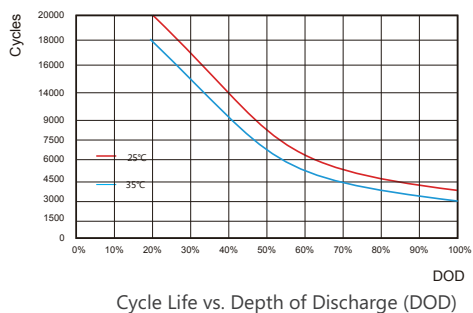
Specifications

Nominal Characteristics		
Battery Model		SCIFP48150U
Nominal Voltage		48V
Typical Capacity		150Ah(25°C,0.2C)
Typical Energy		7200 Wh
Volumetric Energy Density		134.0 Wh/dm ³
Gravimetric Energy Density		118 Wh/kg
Dimensions	Width	440mm
	Height	222mm(5U)
	Depth	550mm
Reference Weight		61Kg
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

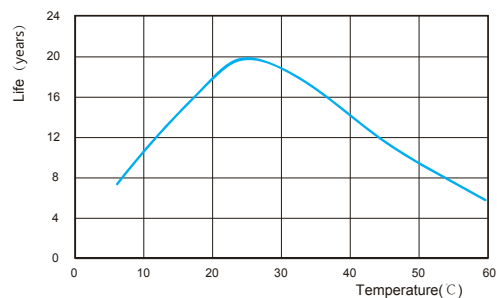
Discharge Data

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

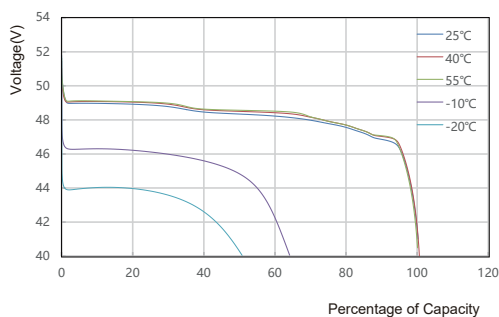
Performance Curve



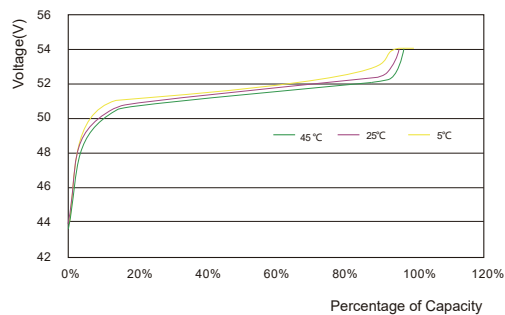
Cycle Life vs. Depth of Discharge (DOD)



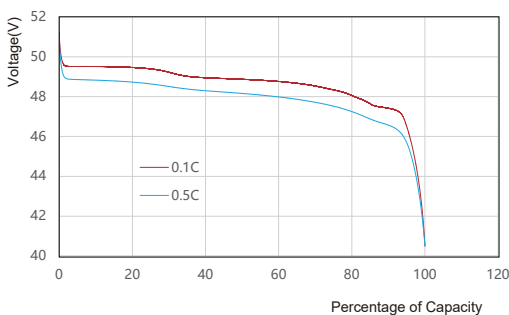
Calendar Life at Different Temperature



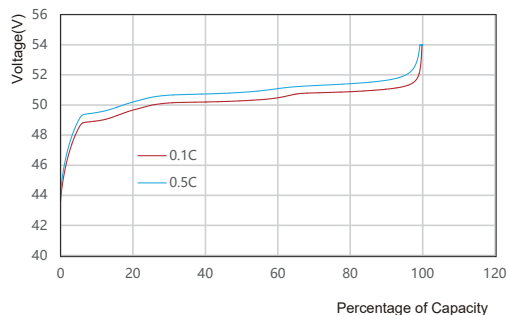
Discharge Curve at Different Temperature



Charge Curve at Different Temperature



Discharge Curve at Different Rate (25°C)



Charge Curve at Different Rate (25°C)

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