POWER STORAGE SOLUTIONS
"Power is at the center of everything we do"

SCLFP48150-5U

LiFePO4 smart lithium-ion battery system

SCLFP48150-5U is a robust 48V LiFePO4 battery built for backup power at remote or outdoor telecom sites. Its modular design supports parallel installs, making it ideal for larger backup demands.

Key Benefits

- Easy installation & upscaling capabilities
- Compact design for space efficiency
- High operational reliability
- Optimized supervision w/ built-in remote control & diagnostics
- Exceptionally long service life & increased energy density

Safety Standards & Compliances

- IEC 60950
- IEC 62321
- IEC 62133
- UN 38.3
- UL 1642
- UL 1973
- ISO 9001
- ISO 14001
- OHSAS 18001

Specifications

Nominal Characteristics		
Nominal Voltage		48V
Nominal Capacity		150 Ah (77°F / 25°C)
Volumetric Energy Density		134.0 Wh / dm^3
Gravimetric Energy Density		97.7 Wh/kg
Dimensions	Length / Width Depth Height	18.98 in / 482 mm 21.65 in / 550 mm 8.74 in / 222 mm
Weight		125 lbs / 56.7 kgs
Design Life		15 Years
Cycle Life		6,000 Cycles
Warranty		5 Year Full
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
Charge Temperature		0°C to +55°C
Discharge Temperature		-20°C to +60°C
Storage Temperature		-20°C to +60°C
Faradic Charge Efficiency		99% (+20°C)
Energy Charge Efficiency		94% (+20°C)
Communication Interface (optional feature)		Modbus/SNMP/TACP
Additional Features (optional)		LCD Display

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Contact Us

888-813-5049

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SCLFP48150-5U
Performance Specifications

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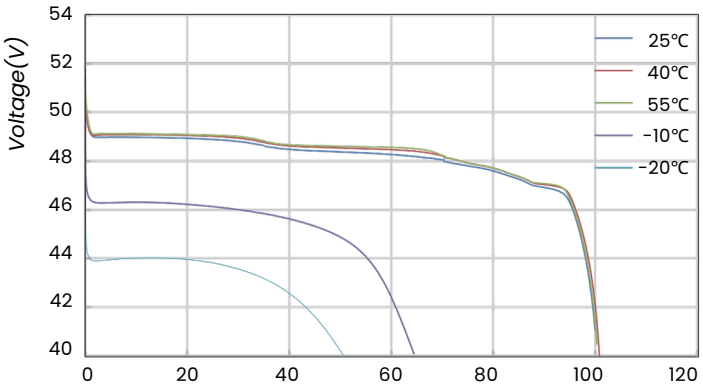
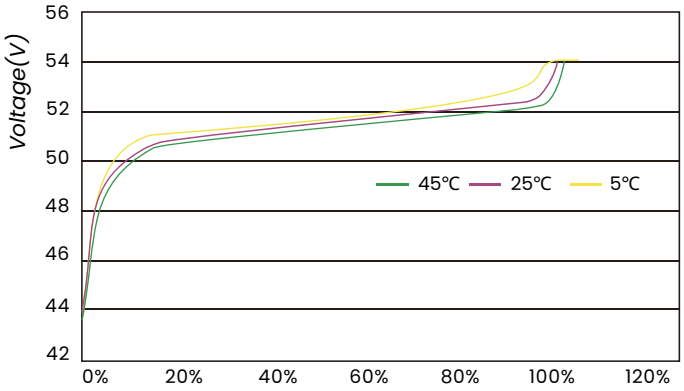
Performance Curves



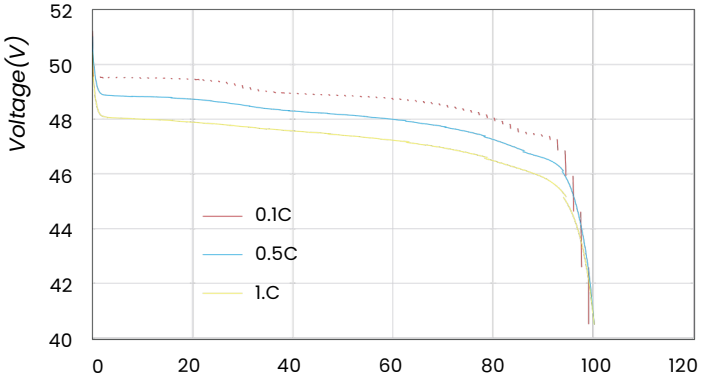
Percentage of Capacity

Discharge Curve at Different Temperatures



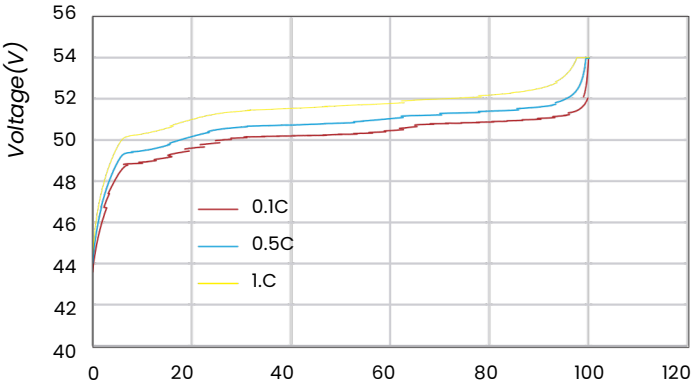
Percentage of Capacity

Charge Curve at Different Temperatures



Percentage of Capacity

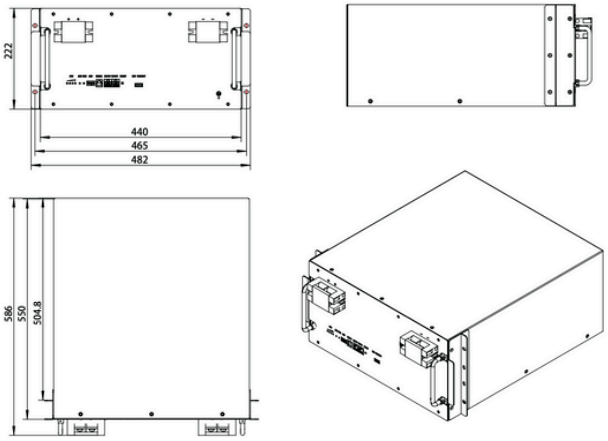
Discharge Curve at Different Rate (25℃)



Percentage of Capacity

Charge Curve at Different Rate (25℃)

Drawing



Discharge Data

Constant Current Discharge Data (25℃)

Current/A / Time/h / Voltage/V	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C
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

Power Storage Solutions® reserves the right to change specifications or design without notice. Keep in touch with us or visit our website for the latest information.

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Contact Us

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