



SCLFP48100-3U

LiFePO4 smart lithium-ion battery system

SCLFP48100-3U 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

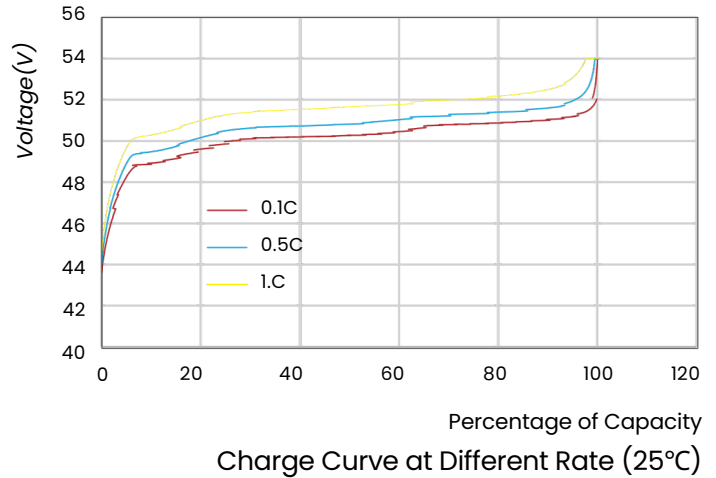
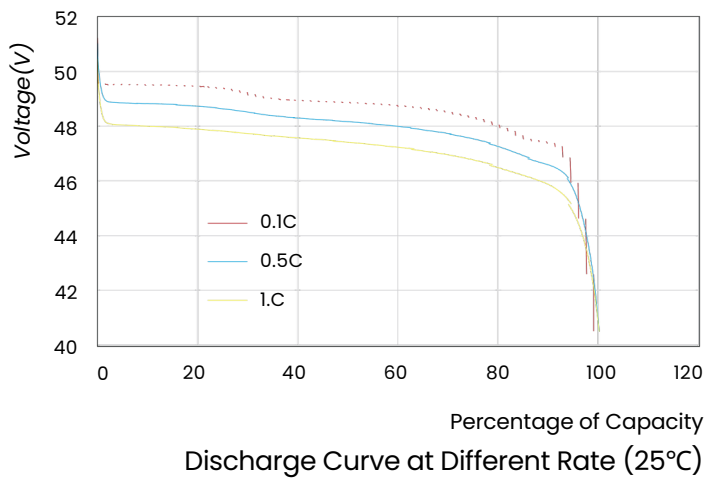
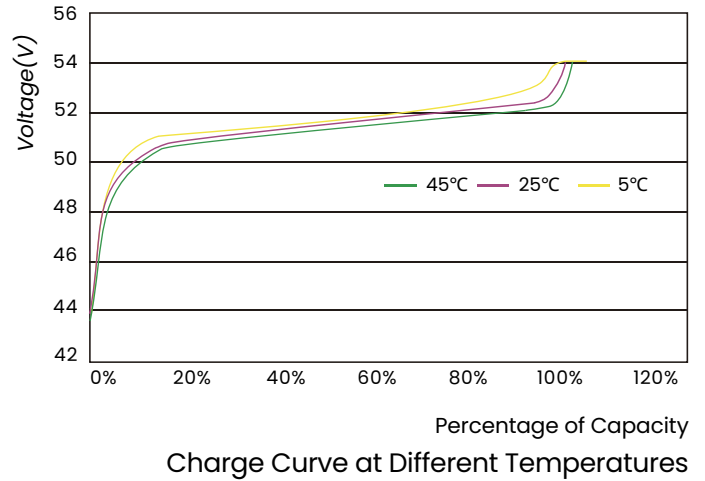
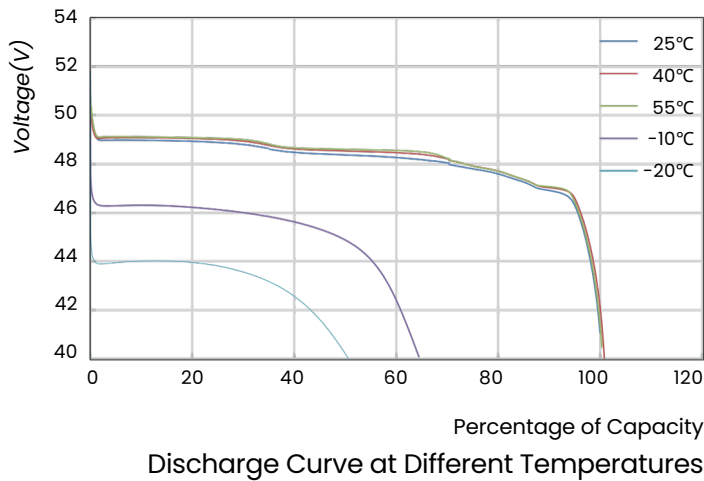
- IEC 60950
- IEC 62321
- IEC 62133
- UN 38.3
- UL 1642
- UL 1973
- ISO 9001
- ISO 14001
- OHSAS 18001

Specifications

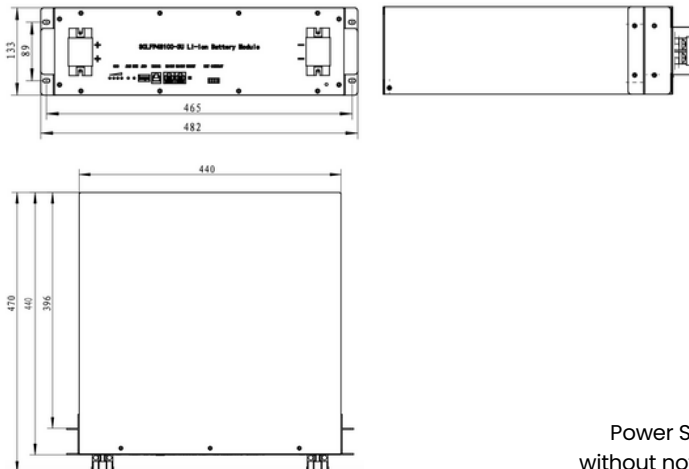
Nominal Characteristics		
Nominal Voltage		48V
Nominal Capacity		100 Ah (77°F / 25°C)
Volumetric Energy Density		186.4 Wh / dm ³
Gravimetric Energy Density		118.2 Wh/kg
Dimensions	Length / Width	18.98 in / 482 mm
	Depth	17.32 in / 440 mm
	Height	5.24 in / 133 mm
Weight		89.5 lbs / 40.6 kgs
Design Life		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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Performance Curves



Drawing



Discharge Data

Constant Current Discharge Data (25°C)						
Current/A	0.1C	0.3C	0.5C	0.7C	0.9C	1.0C
Voltage/V	Time/h					
45.0	9.560	3.283	1.943	1.369	1.050	0.950
43.5	10.017	3.339	1.978	1.399	1.080	0.970
42.0	10.094	3.374	2.008	1.409	1.090	0.980
40.5	10.201	3.390	2.021	1.420	1.099	0.989

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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