



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

SCIFP48150

Lithium-ion battery system

- Increased energy density
- Ease of installation
- Longer life in uncontrolled environments
- Built-in battery control

Product Standards

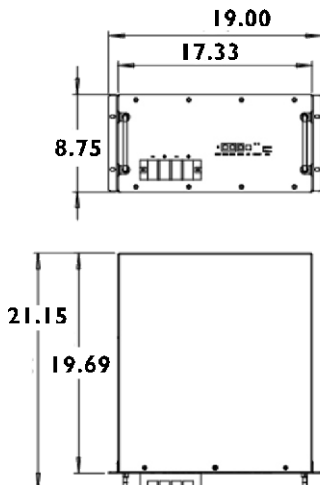
- IEC 60950
- IEC 62321
- IEC 62133
- UN 383
- UN 1642
- UN 1973

MS Certification

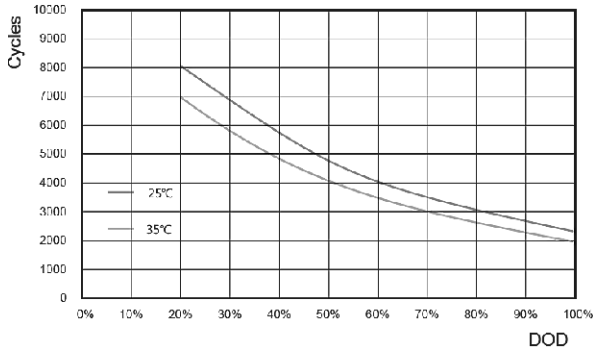
- ISO 9001
- ISO 14001
- OHSAS 18001

Nominal Characteristics		
Battery Model		SCIFP48150
Nominal Voltage		48V
Typical Capacity		150Ah (25)
Typical Energy		7200 Wh
Volumetric Energy Density		147.4 Wh/dm ³
Gravimetric Energy Density		106.2 Wh/kg
Dimensions	Width	17.32 inches, 440mm
	Height	8.74 inches, 222mm
	Depth	19.69 inches, 500mm
Reference Weight		67.8Kg
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
Operation Environment		
Charge Temperature		0°C to +55°C
Discharge Temperature		-20 to +60°C
Storage Temperature		-20°C to +60°C
Protection Class		IP20

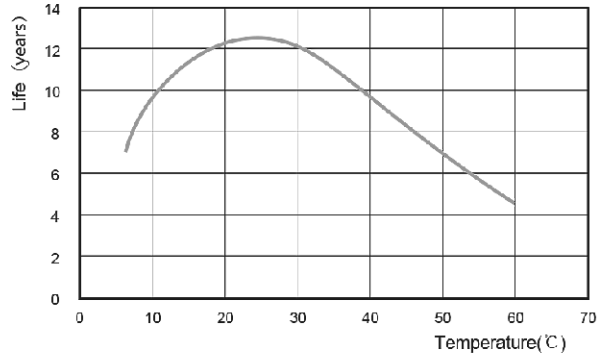
SCIF48150 is a powerful 48 Volt LiFePO4 battery model which has been specifically designed to provide battery backup for rack or cabinet telecom sites. It's modular design enables parallel installation to meet the needs of longer backup times. Can be used inside or outside plant applications.



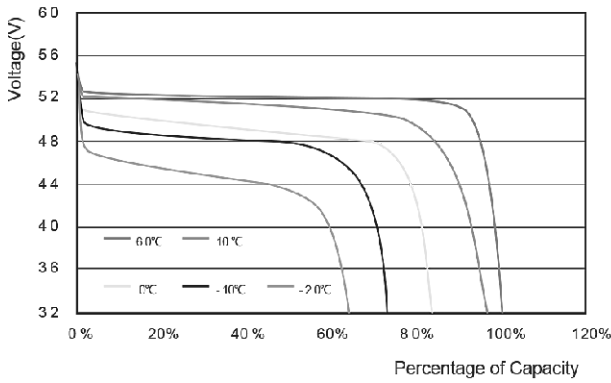
Performance Curves



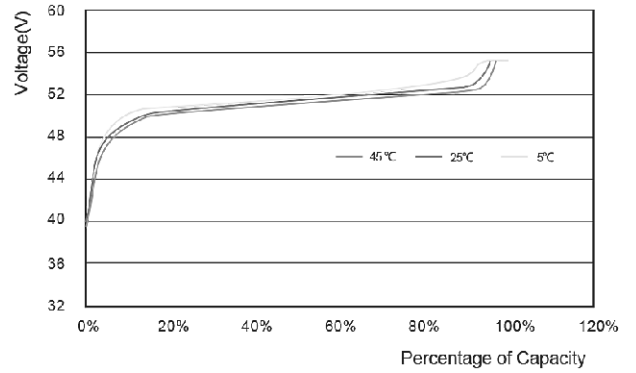
Cycle Life vs. Depth of Discharge (DOD)



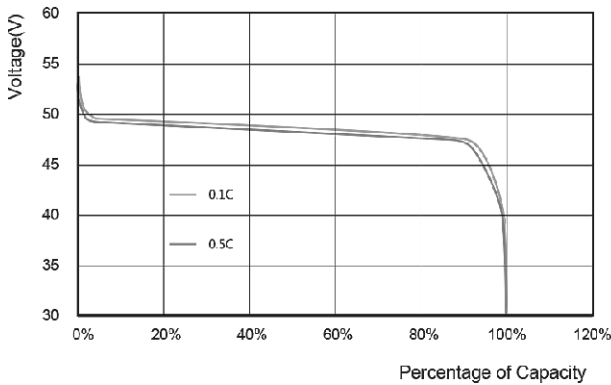
Calendar Life at Different Temperature



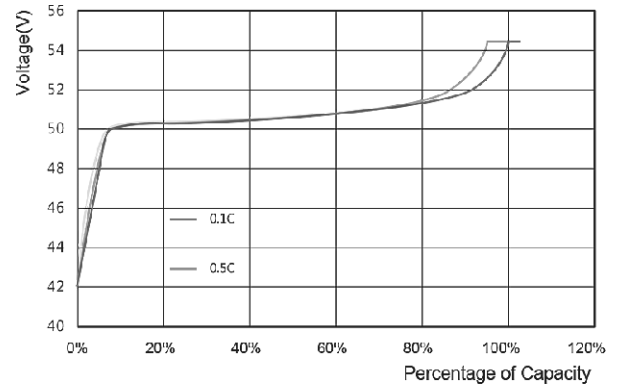
Discharge Curve at Different Temperature



Charge Curve at Different Temperature



Discharge Curve at Different Rate (25°C)



Charge Curve at Different Rate (25°C)

Constant Current Discharge Data @ 25°C Hours

Current A	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C
Voltage						
45.0	9.475	4.858	3.254	2.42	1.925	1.587
43.5	9.927	4.948	3.309	2.453	1.96	1.62
42.0	10.003	4.996	3.344	2.494	1.99	1.631
40.5	10.101	5.044	3.359	2.51	2.001	1.659