

SmartPower 48V180Ah

SSIFP48180A lithium-ion battery system



SSIFP48180A, a powerful 48V LiFePO₄ battery product, has been especially designed to provide power backup for remote or outdoor telecom sites. 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
- Super long life time
- Built-in intelligent BMS to protect the battery pack at any time and prolong its service life

Standards

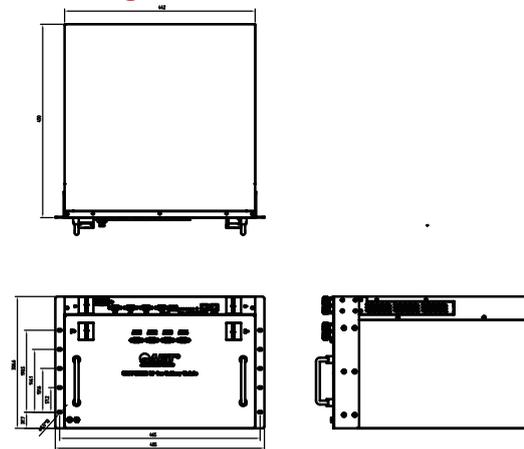
a. Product

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

b. MS certification

- ISO 9001
- ISO 14001
- OHSAS 18001

Drawing



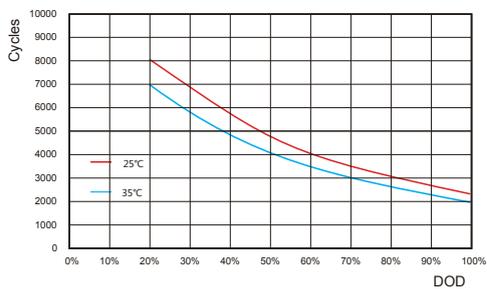
Specifications

Nominal Characteristics		
Battery Model		SSIFP48180A
Nominal Voltage		48V
Typical Capacity		180Ah(25°C,0.2C)
Typical Energy		8640 Wh
Volumetric Energy Density		141.7 Wh/dm ³
Gravimetric Energy Density		115.2 Wh/kg
Dimensions	Width	442mm
	Height	306.6mm(7U)
	Depth	450mm
Reference Weight		75.0Kg
Electrical Characteristics		
Voltage Window		40.5~54.0V
Charge Voltage Range		52.5~54.0V
Max. Permanent Discharge Current		150A
Max. Permanent Charge Current		150A
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

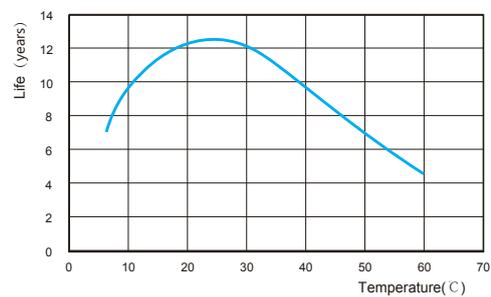
Discharge Data

Constant Current Discharge Data(25°C)									
Voltage/V	Current/A	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C
	Time/h								
45.0		9.560	4.902	3.283	2.442	1.943	1.601	1.369	1.191
43.5		10.017	4.993	3.339	2.475	1.978	1.634	1.399	1.210
42.0		10.094	5.041	3.374	2.517	2.008	1.654	1.409	1.232
40.5		10.201	5.090	3.390	2.533	2.021	1.674	1.420	1.240

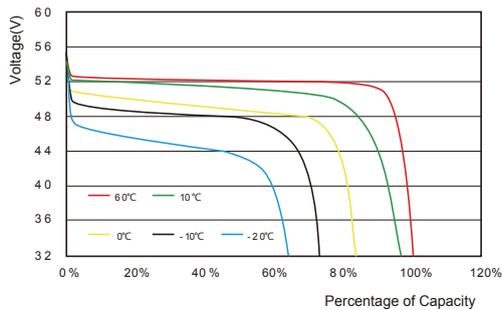
Performance Curve



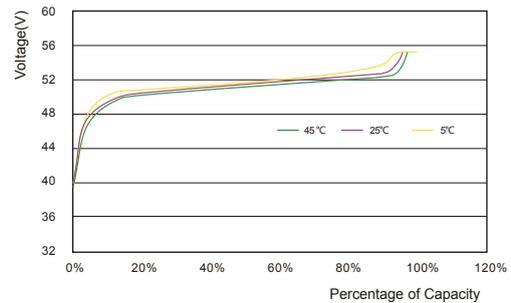
Cycle Life vs. Depth of Discharge (DOD)



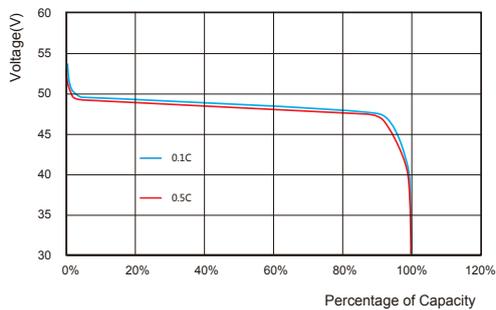
Calendar Life at Different Temperature



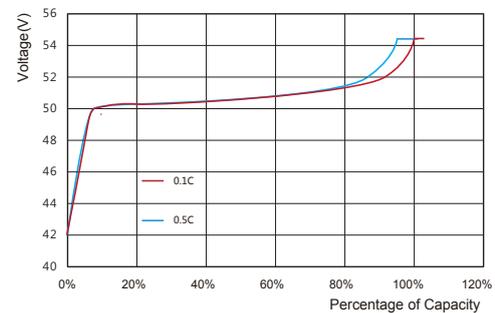
Discharge Curve at Different Temperature



Charge Curve at Different Temperature



Discharge Curve at Different Rate (25°C)



Charge Curve at Different Rate (25°C)

Contact information

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