SmartPower 48V200Ah

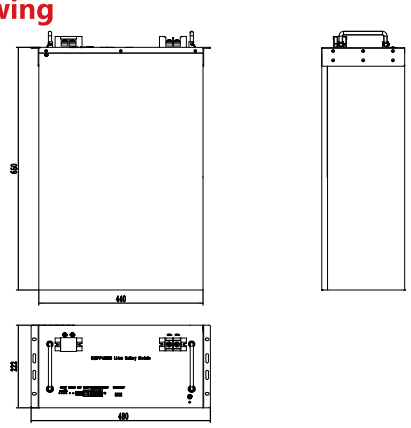
SSIFP48200A lithium-ion battery system

SCIFP48200, a powerful 48V $LiFePO_4$ 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
- Excellent long life time
- Built-in intelligent BMS to protect the battery pack at any time and prolong its service life

Drawing



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

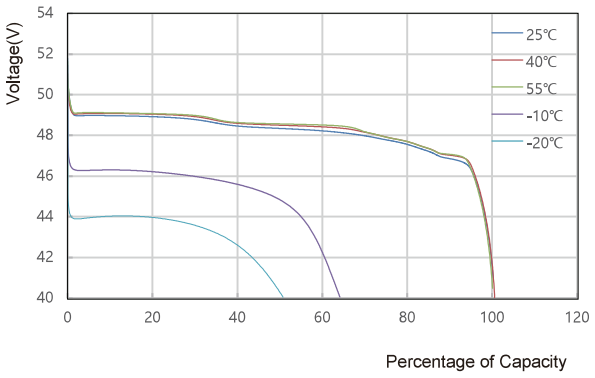
Specifications

Nominal Characteristics		
Battery Model		SCIFP48200
Nominal Voltage		48V
Typical Capacity		200Ah(25℃,0.2C)
Typical Energy		9600 Wh
Volumetric Energy Density		151.2 Wh/dm^3
Gravimetric Energy Density		106.7 Wh/kg
Dimensions	Width	440mm
	Height	222mm(5U)
	Depth	650mm
Reference Weight		90.0Kg
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℃ to +60°C
Storage Temperature		-20°C to +60°C
Protection Class		IP20

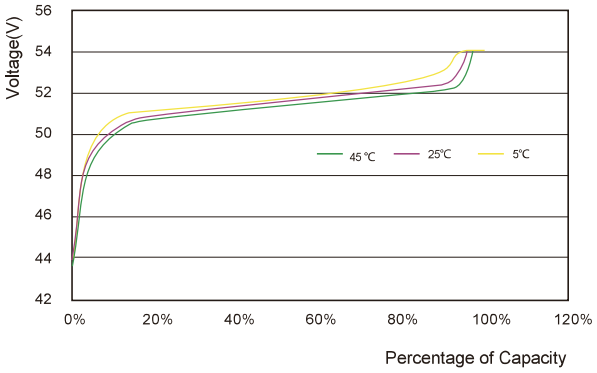
Discharge Data

Constant Current Discharge Data(25 ℃)						
Current/A / Time/h / Voltage/V	0.1C	0.2C	0.3C	0.33C	0.4C	0.5C
45.0	9.475	4.858	3.254	2.925	2.420	1.925
43.5	9.927	4.948	3.309	2.988	2.453	1.960
42.0	10.003	4.996	3.344	3.046	2.494	2.990
40.5	10.101	5.044	3.359	3.048	2.510	2.001

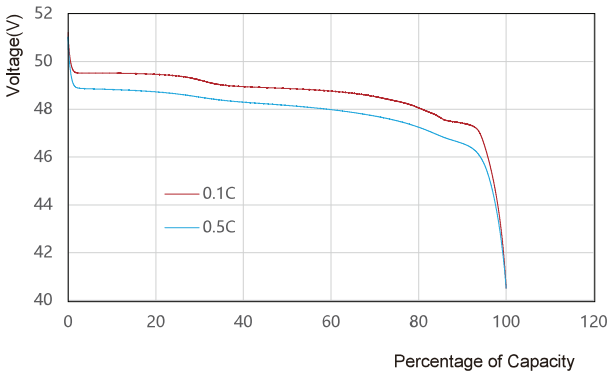
Performance Curve



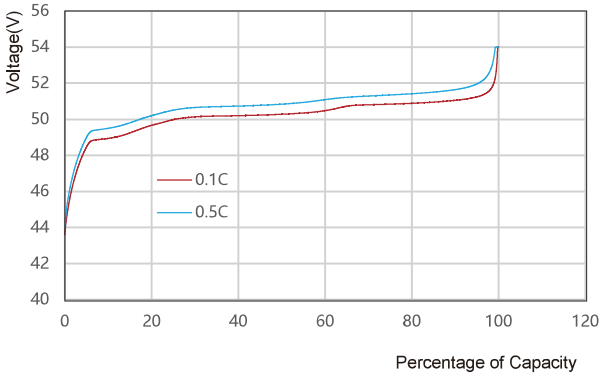
Discharge Curve at Different Temperature



Charge Curve at Different Temperature



Discharge Curve at Different Rate（25℃）



Charge Curve at Different Rate（25℃）

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(Edition: Aprl.,2020)