

SmartPower 48V100Ah(3U)

SCIFP48100 lithium-ion battery system

SCIFP48100, a powerful 48V LiFePO₄ battery product, has been especially designed to provide power backup for remote or outdoor telecom sites, off-grid, on-grid and household usage energy storage systems. Compared with ordinary lithium batteries, this battery has the functions of 57V constant voltage output, anti-theft, GPS, remote monitoring.



Benefits

- Anti-Theft Technology
- Remote Monitor System
- 57V Constant voltage output & Hybrid Operation
- 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

Standards

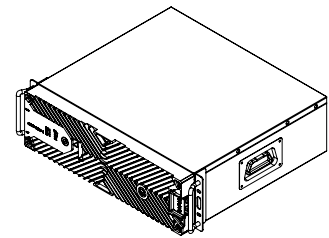
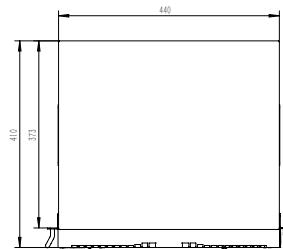
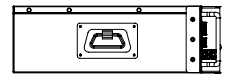
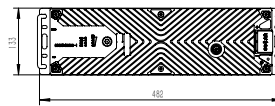
a. Product

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

b. MS certification

- ISO 9001
- ISO 14001
- OHSAS 18001

Drawing



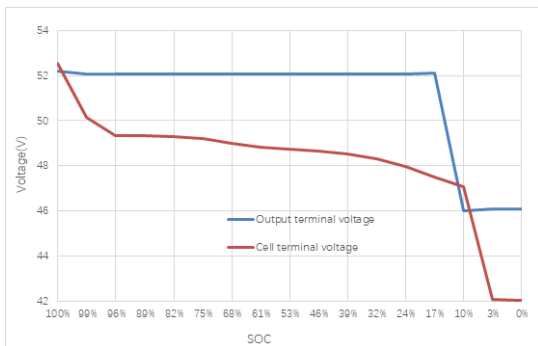
Specifications

Nominal Characteristics		
Battery Model		SCIFP48100
Nominal Voltage		48V
Typical Capacity		100Ah(25°C,0.2C)
Typical Energy		4800 Wh
Volumetric Energy Density		200 Wh/dm ³
Gravimetric Energy Density		111.6 Wh/kg
Dimensions	Width	440mm
	Height	133mm(3U)
	Depth	410mm
Reference Weight		43Kg
Electrical Characteristics		
Voltage Window		40.5~54V
Boosting voltage		48~57V
Charge Voltage Range		52.5~54.0V
Max. Continuous Discharge Current		100A
Max. Continuous Charge Current		100A
Faradic Charge Efficiency		99% (+20°C)
Energy Charge Efficiency		94% (+20°C)
Communication Interface (optional feature)		RS485/CAN
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

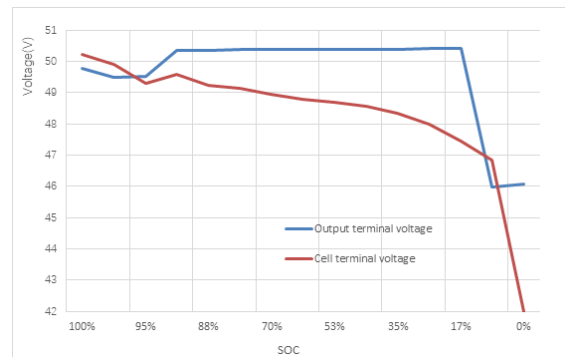
Discharge Data

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	0.9C	1.0C
	Time/h											
45.0			9.560	4.902	3.283	2.442	1.943	1.601	1.369	1.191	1.050	0.950
43.5			10.017	4.993	3.339	2.475	1.978	1.634	1.399	1.210	1.080	0.970
42.0			10.094	5.041	3.374	2.517	2.008	1.654	1.409	1.232	1.090	0.980
40.5			10.201	5.090	3.390	2.533	2.021	1.674	1.420	1.240	1.099	0.989

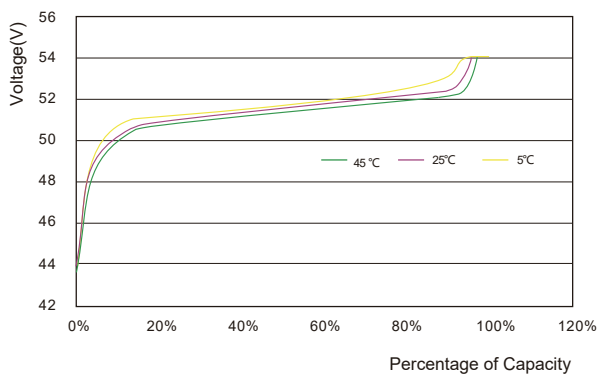
Performance Curve



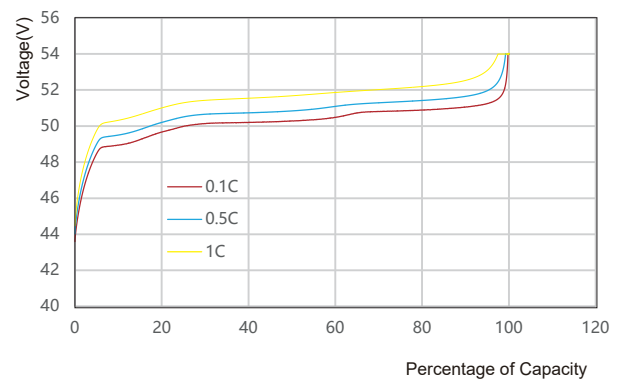
Power management constant voltage discharge mode



Self managed constant voltage discharge mode



Charge Curve at Different Temperature



Charge Curve at Different Rate (25°C)

Sacred Sun Power Sources Co., Ltd.

Add: No.1 Shengyang Road, Qufu 273100 PRC
Tel: +86-537-4422313 Fax: +86-537-4411980
Email: sales@sacredsun.cn

Sacred Sun Hong Kong Co., Limited

Add: RM 19C Lockhart CTR 301-307 Lockhart RD Wan Chai, Hong Kong
Email: admin.hk@sacredsun.hk

Sacred Sun Asia Pacific Pte Ltd.

Add: 1 Ubi View, #04-12, Focus One, Singapore 408555
Email: admin.sg@sacredsun.sg

Sacred Sun Europe SARL

Add: ZAE Fontaine, 33210 Fargues, France
Email: admin.eu@sacredsun.eu

Sacred Sun MEA FZE

Add: No. 311 office, Building LOB 14, JAFZA, Dubai, UAE
Email: admin.ae@sacredsun.ae