

SmartPower 48V40Ah

SCIFP4840 lithium-ion battery system

SCIFP4840, 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. 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

Standards

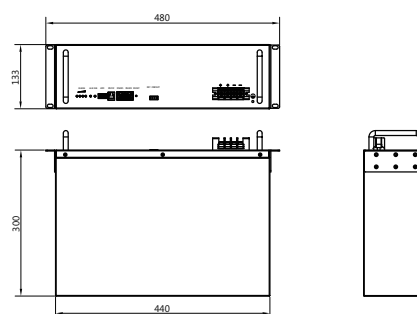
a. Product

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

b. MS certification

- ISO 9001
- ISO 14001
- OHSAS 18001

Drawing



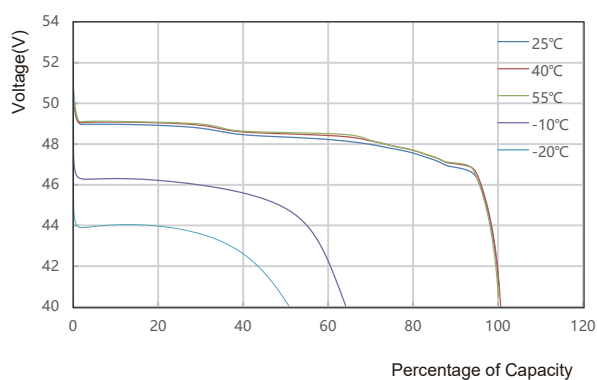
Specifications

Nominal Characteristics		
Battery Model		SCIFP4840
Nominal Voltage		48V
Typical Capacity		40Ah(25 °C,0.2C)
Typical Energy		1920 Wh
Volumetric Energy Density		109.3 Wh/dm ³
Gravimetric Energy Density		88.1 Wh/kg
Dimensions	Width	440mm
	Height	133mm(3U)
	Depth	300mm
Reference Weight		21.8Kg
Electrical Characteristics		
Voltage Window		40.5~54.0V
Charge Voltage Range		52.5~54.0V
Max. Permanent Discharge Current		40A
Max.Permanent Charge Current		40A
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

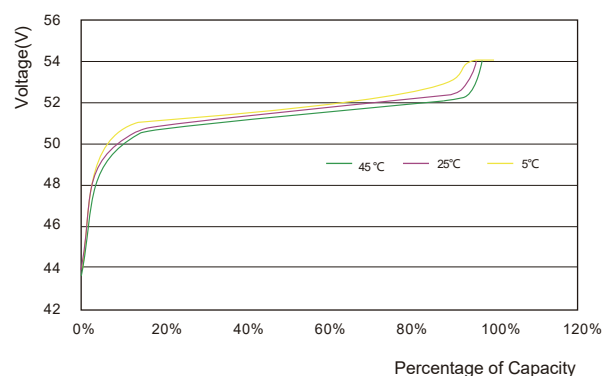
Discharge Data

Constant Current Discharge Data(25°C)										
Current/A Voltage/V Time/h	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1.0C
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

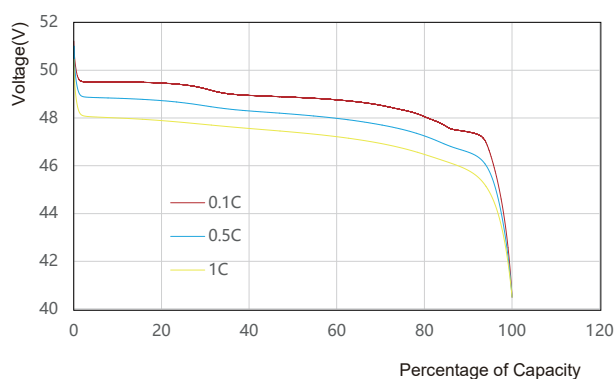
Performance Curve



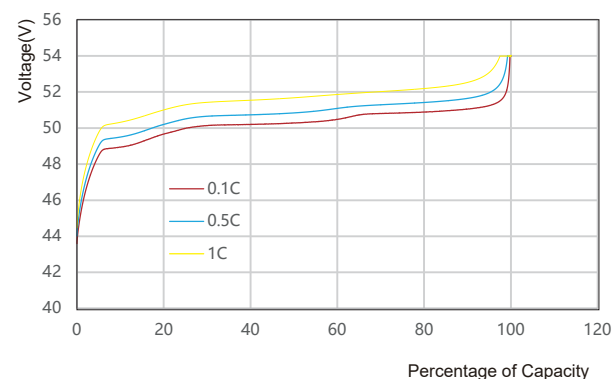
Discharge Curve at Different Temperature



Charge Curve at Different Temperature



Discharge Curve at Different Rate (25°C)



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@sacredsunsun.cn

Sacred Sun Hong Kong Co., Limited

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

Sacred Sun Asia Pacific Pte Ltd.

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

Sacred Sun Europe SARL

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

Sacred Sun MEA FZE

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