

# SmartPower 24V100Ah

## SCIFP24100 Lithium-ion battery system

SCIFP24100, a powerful 24V LiFePO<sub>4</sub> battery product, has been designed to provide reliable power for energy storage system like off-grid, on-grid, household usage, by its excellent long life and high security.



### 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

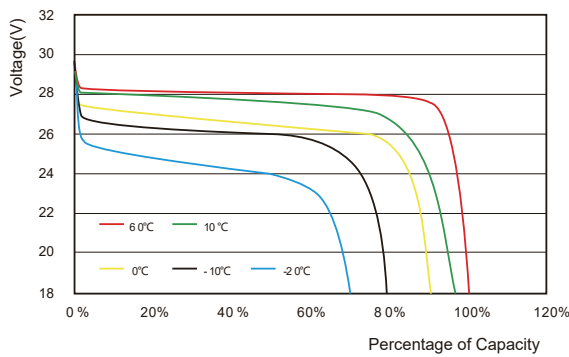
### Specifications

Nominal Characteristics		
Nominal Voltage	25.6V	
Typical Capacity	100Ah(25°C,0.2C)	
Typical Energy	2560 Wh	
Volumetric Energy Density	145.8 Wh/dm <sup>3</sup>	
Gravimetric Energy Density	102.4 Wh/kg	
Dimensions	Width	440mm
	Height	133mm
	Depth	300mm
Typical Weight	25Kg	
Electrical Characteristics		
Voltage Window	21.6~28.8V	
Charge Voltage Range	28.0~28.8V	
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)	--	
Additional Features (optional feature)	--	
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	

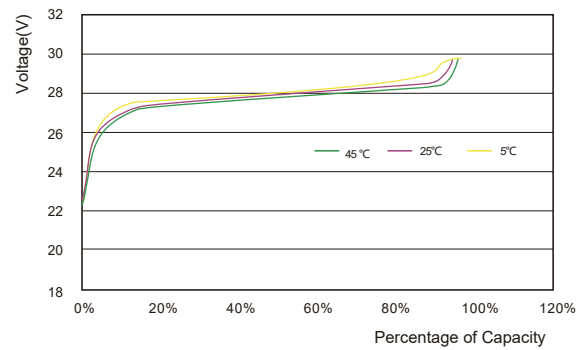
## Discharge Data

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											
24.0			9.560	4.902	3.283	2.442	1.943	1.601	1.369	1.191	1.050	0.950
23.2			10.017	4.993	3.339	2.475	1.978	1.634	1.399	1.210	1.080	0.970
22.4			10.094	5.041	3.374	2.517	2.008	1.654	1.409	1.232	1.090	0.980
21.6			10.201	5.090	3.390	2.533	2.021	1.674	1.420	1.240	1.099	0.989

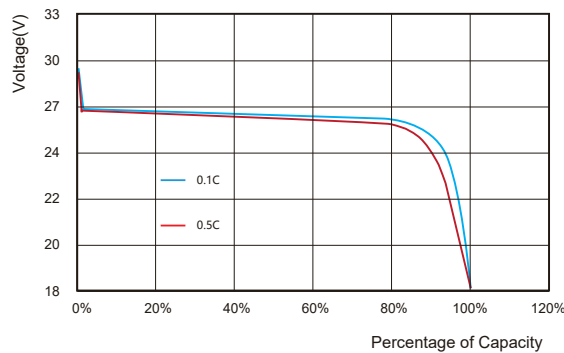
## Performance Curve



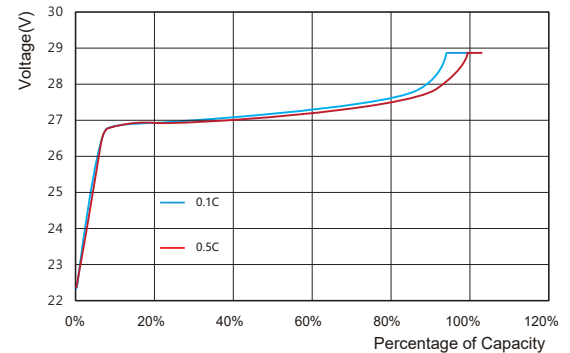
Discharge Curve at Different Temperature



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@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