

SDA10-48100

Lithium-ion battery system for telecommunication



Add: Economic Development Zone, Jiangyan district, Taizhou, Jiangsu, China.

Zip: 225500

Tel: +86 523-88521888 Fax: +86 523-88521244

E-mail: office@shuangdeng.com.cn





Make full use of internet platform Big Data cloud storage Service for customers worldwide

With market share ranking first in the mainstream of China's telecom operators for many years and have get the net certificate in many regions around the world and sell to 127 nations and districts in five continents.

Shoto firmly promote green low-carbon career and always fulfill the concept of "new energy, circularity and high-tech", to manage from the five link key aspects: design, development, green purchasing, system management, recycling, energy conservation and emissions reduction to create green model for the industry, to create a green life for human beings and store a green future for the earth.

Pursue the perfection To build up a strong and sustainable enterprise

Shoto has owned several honors such as "National environment friendly enterprise", "National key high-tech industry group", "China's top 100 electronic information enterprises", "Global 500 new energy enterprises".

Explore actively To find an ever-increasing energy new world

Communication

Possess all series of energy storage solutions and provide firm green energy security;

Telecom

Becoming the core of constructing the future smart grid center;

Power

New clean and efficient power energy, to provide endless power for the social development:

Recycling

Take the lead in building circulation industry chain, make renewable energy, restore a healthy earth.

Converge global industry experts and unite research institutes Collaborate with customers to develop the world's leading energy storage systems

The establishment of the Chinese Academy of Sciences in cooperation with the establishment of the Advanced Energy Development Research Center, academicians workstation, post-doctoral research station, state-level enterprise technology center have take on the 863 and other national research projects and research and develop the world forward-looking high-end new energy projects.

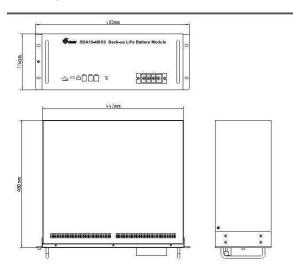
Application Scenarios

- Telecommunication
- UPS
- Renewable energy system

Product Certificates

- ☑ ISO9001
- ☑ ISO14001
- ☑ CE
- ✓ TLC

Drawings





The SDA10-48100 series uses new LiFePO $_4$ technology, this reliable SHOTO product is safe, durable and easy to install in any new or existing telecom sites; expecially suitable for outdoor cabinets.

Key advantages

- ▶ High energy density: more energy with less weight and footprint.
- High charge currents (short charge period)
- High discharge currents
- ▶ Long battery life (up to three times the battery life of a conventional battery)
- High efficiency between charging and discharging
- Higher continual power available
- Wide operating temperature

Technical Parameters

Iter	n	Parameters					
1. Performance Paran	neter						
Nominal voltage		48V					
Rated capacity		100Ah (C₅ , 0.2C to 40V	at 25 °C)				
Operating voltage range		40V-56.4V					
Charging voltage		56.4V					
Charging current (current-limiting)		25 A					
Charging current (M	aximum)	100A					
Discharge cut-off vol	tage	40V					
	Width	442 mm					
Dimensions	Height	177mm					
	Depth	480 mm About 45.7kg Rack mounted / Wall mounted RS232 / RS485 ALM / RUN / SOC					
Weight		About 45.7kg	J/Wall mounted DC D.5C,80%DOD,35°C contact alarm under voltage, short circuit, overload, over current, ure, low temperature protection, etc.				
2. Function Description	on						
2. Function Description Installation method		Rack mounted / Wall mounted					
Communication inte	rface	RS232 / RS485					
Communication interface ndicator state		ALM/RUN/SOC					
Cycle life		3500 cycles@0.5C,80%DOD,35°C					
Custom function		S/N Code;Dry contact alarm					
Alarm and protection		Over voltage, under voltage, short circuit, overload, over current, over temperature, low temperature protection, etc.					
3. Working Condition							
Cooling mode		Automatic cold					
Altitude		≤4000m					
Humidity		5%-95%					
On a ratio at to the state of		Charge	-5 °C ~+45 °C				
Operating temperature		Discharge	-20 °C ~+50 °C				
		Charge	+15 °C ~+35 °C				
Recommended oper	rating temperature	Discharge	+15 °C ~+35 °C				
		Storage	-5 °C ~+45 °C -20 °C ~+50 °C +15 °C ~+35 °C				

Passion for Storage and Green Energy

02

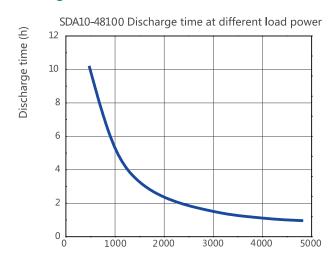
SDA10-48100 series Constant Current Discharge Characteristics (25°C,77°F)

Current/A Voltage Time/h	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1C
46.5V	9.35	4.60	2.86	1.99	1.50	1.17	0.90	0.77	0.52	0.34
45.0V	9.89	4.77	3.10	2.24	1.75	1.44	1.17	1.03	0.85	0.77
43.5V	10.02	4.87	3.14	2.29	1.80	1.49	1.22	1.09	0.96	0.87
42.0V	10.10	4.95	3.22	2.36	1.85	1.54	1.26	1.13	0.99	0.91
40.0V	10.16	5.05	3.32	2.44	1.92	1.60	1.32	1.18	1.04	0.97

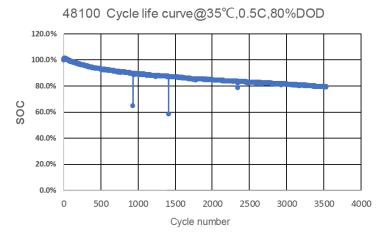
SDA10-48100 Constant Power Discharge Characteristics (25°C,77°F)

Power/W Voltage Time/h	480	960	1440	1920	2400	2880	3360	3840	4320	4800
46.5V	9.32	4.56	2.82	1.97	1.49	1.15	0.88	0.75	0.51	0.34
45.0V	9.86	4.74	3.07	2.23	1.74	1.42	1.16	1.01	0.84	0.77
43.5V	9.99	4.84	3.10	2.27	1.79	1.47	1.20	1.07	0.94	0.86
42.0V	10.07	4.91	3.18	2.34	1.84	1.52	1.24	1.11	0.97	0.91
40.0V	10.13	5.02	3.28	2.42	1.91	1.58	1.30	1.16	1.02	0.96

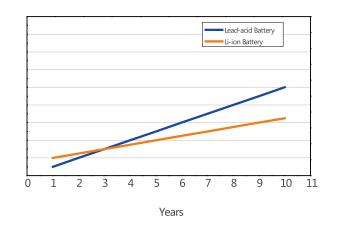
Discharge Curves

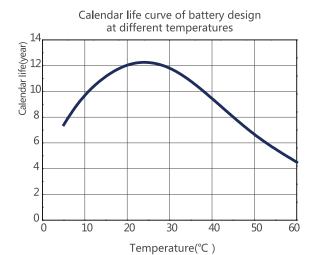


Cycle Life Curves



The TCO curve of different battery





04 05