

SDA10-48100

Lithium-ion battery system for telecommunication



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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

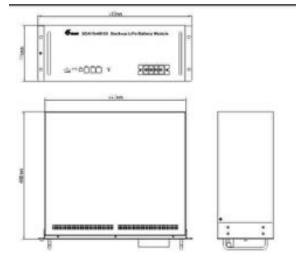
☑ ISO9001

☑ 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

Passion for Storage and Green Energy

Technical Parameters

Iter	m	Parameters						
1. Performance Para	meter							
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)		10A						
Charging current (Maximum)		100A						
Discharge cut-off voltage		40V						
	Width	442 mm ±1mn	n					
Dimensions	Height	177mm ±1mm	1					
	Depth	480 mm ±1mr	n					
Weight		About 45.7kg ±	1kg					
2. Function Descripti	on							
Installation method		Rack mounted / Wall mounted						
Communication interface		RS232 / RS485						
Indicator state		ALM/RUN/SOC						
Cycle life			*6000 cycles@80%DOD,25℃					
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	า	<u> </u>						
Cooling mode		Automatic cold						
Altitude		≤4000m						
Humidity		5%-95%						
0 11 1		Charge	-5 °C ~+45 °C					
Operating temperate	ure	Discharge	-20 °C ~+50 °C					
		Charge	+15 °C ~+35 °C					
Recommended operating temperature								
Recommended ope	rating temperature	Discharge	+15 C ~+35 C					

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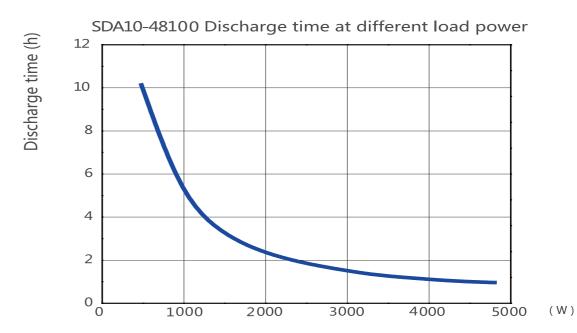
SDA10-48100 series Constant Current Discharge Characteristics (25℃,77˚F)

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



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^{*1.} Cycle Life: calculated with end capacity defined as 60% of original.