

SDA10-4850

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

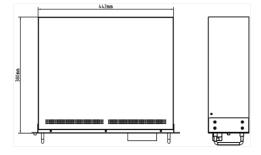
Product Certificates

- ☑ ISO9001
- ☑ ISO14001
- ☑ CE
- ☑ TLC
- ☑ TÜV

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Drawings







The SDA-4850(A) 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.

Kev 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

Ite	Item		Parameters						
1. Performance Parameter									
Nominal voltage	Nominal voltage		48V						
Rated capacity	Rated capacity		50Ah (Cs , 0.2C to 40V at 25 °C)						
Operating voltage r	Operating voltage range		40V-56.4V						
Charging voltage	Charging voltage		56.4V						
Charging current (c	Charging current (current-limiting)		10A						
Discharge current (I	Discharge current (Maximum)		50A						
Discharge cut-off vo	Discharge cut-off voltage		40V						
	Width	442 mm							
Dimensions	Height	133mm							
	Depth	380 mm							
Weight		About 25.7kg	About 25.7kg						
2. Function Descript	2. Function Description								
Installation method	Installation method		Rack mounted / Wall mounted						
Communication int	Communication interface		RS232 / RS485						
Indicator state	Indicator state		ALM / RUN / SOC						
Parallel communica	Parallel communication		Maximum support for 16 sets of parallel						
Terminal stud	Terminal stud		M6						
Alarm and protection	Alarm and protection		Over voltage, under voltage, short circuit, overload, over current, over temperature, low temperature protection, etc.						
3. Working Condition	n								
Cooling mode	Cooling mode		Automatic cold and hot						
Altitude	Altitude		≤4000m						
Humidity	Humidity		5%-95%						
0	Operating temperature		-5 ℃~+45 ℃						
Operating tempera			-20 °C ~+50 °C						
	Recommended operating temperature		+15 °C ~+35 °C						
Recommended op			+15℃~+35℃						
			-10 °C ~+35 °C						

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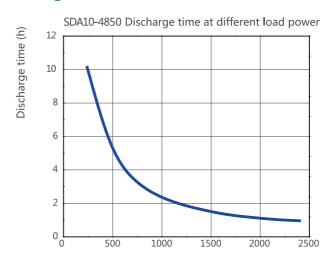
SDA10-4850(A) series Constant Current Discharge Characteristics (25°C,77°F)

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

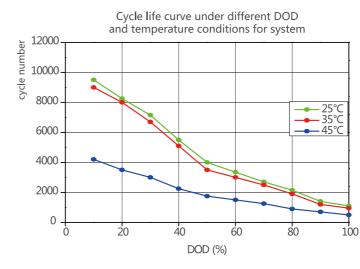
SDA10-4850(A) Constant Power Discharge Characteristics (25°C,77°F)

Power/W Voltage Time/h	240	480	720	960	1200	1440	1680	1920	2160	2400
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

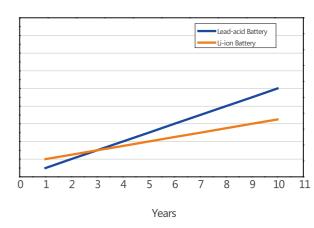
Discharge Curves



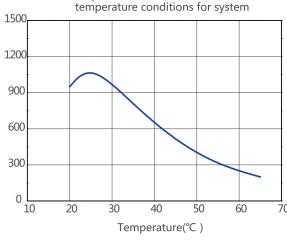
Cycle Life Curves



The TCO curve of different battery



Cycle life curve under different temperature conditions for system



Calendar life curve of battery design at different temperatures

