

SDA10-4850

Lithium-ion battery system for telecom



shoto

Application Scenarios

- Backup Power Supply For Communication Base Station
- applicable to stable grid, half-grid and other scenes

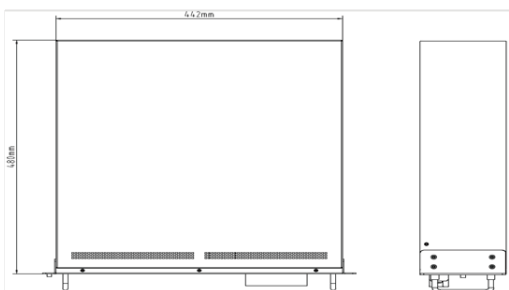
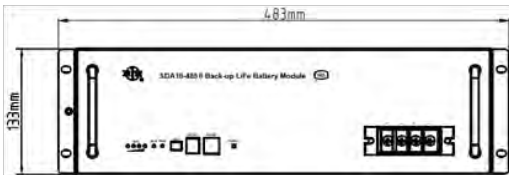
Key advantages

- High energy density: more energy with less weight and footprint
- High charge and discharge currents (short charge period)
- Long battery life (up to 3 times the battery life of a conventional battery)
- High efficiency between charging and discharging
- Higher continual power available
- Wide operating temperature
- Predictable end of life due BMS controller
- Multiple anti-theft solutions (optional): software, gyroscope, material, etc.
- Other functions (optional): Heating/LCD/Dry Contact

Product Certificates

- ISO9001
- ISO14001
- CE
- TLC
- TUV
- IEC62133

Overall dimensions



Technical Parameters

project		index	
1. Performance parameter			
Model		15S	16S
Nominal voltage		48V	51.2V
Rated capacity		50Ah(C ₃ , 0.2C to 40V at 25 °C)	
Operating voltage range		40V-56.4V	42V-57.6V
Boost charge/Float charge voltage		54.5V/52.5V	57.6V/54V
Charging current (current-limiting)		10A	10A
Charging current (Maximum)		50A	50A
Discharge current (Maximum)		50A	50A
Discharge cut-off voltage		40V	40V
Dimensions	Width	442±1mm	442±1mm
	Height	133±1mm	133±1mm
	Depth	380±1mm	380±1mm
Weight		About 24.5±1 kg	About 25.3±1 kg
2. Function Description			
Installation method		Rack mounted / Wall mounted	
Communication interface		RS232/RS485	
Indicator state		ALM/RUN/SOC	
Parallel communication		Maximum support for 16 sets of parallel	
Terminal stud		M6	
Alarm and protection		Over voltage, under voltage, short circuit, overload, over current, over temperature, low temperature protection, etc.	
3. Working Condition			
Cooling mode		Self-cooling	
Altitude		≤4000m	
Humidity		5%-95%	
Operating temperature	Charge	-5°C ~ +45°C	
	Discharge	-20°C ~ +50°C	
Recommended operating temperature	Charge	+15°C ~ +35°C	
	Discharge	+15°C ~ +35°C	
	Storage	+10°C ~ +35°C	

Passion for Storage
and Green Energy

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

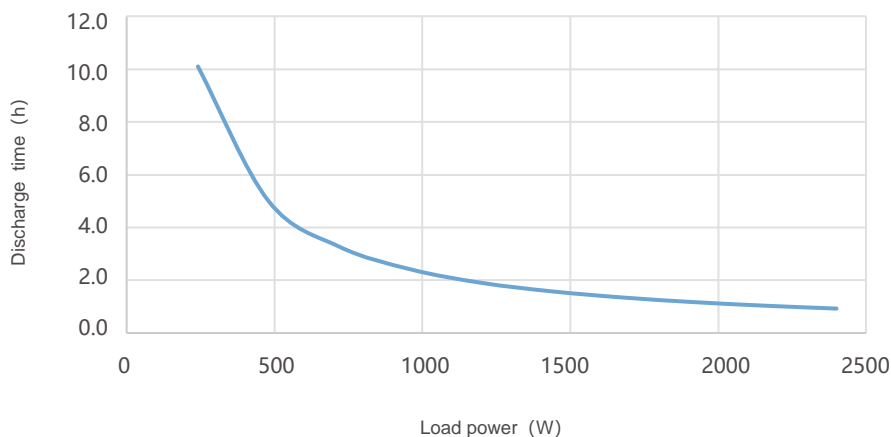
Voltage	Current/A		Time/h									
	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1C		
46.5V	9.55	4.7	3.04	2.2	1.67	1.33	1.06	0.87	0.69	0.54		
45.0V	9.89	4.87	3.19	2.34	1.82	1.49	1.24	1.03	0.87	0.72		
43.5V	10.12	4.97	3.27	2.42	1.9	1.55	1.3	1.13	0.99	0.87		
42.0V	10.3	5.1	3.34	2.47	1.95	1.62	1.36	1.18	1.03	0.92		
40.0V	10.5	5.2	3.41	2.54	2	1.65	1.4	1.22	1.07	0.95		

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

Voltage	Power/W		Time/h								
	240	480	720	960	1200	1440	1680	1920	2160	2400	
46.5V	9.54	4.69	3.02	2.18	1.65	1.32	1.05	0.86	0.68	0.53	
45.0V	9.88	4.85	3.17	2.32	1.8	1.47	1.22	1.01	0.85	0.7	
43.5V	10.1	4.95	3.24	2.41	1.89	1.53	1.28	1.11	0.98	0.86	
42.0V	10.28	5.1	3.33	2.43	1.92	1.58	1.31	1.15	1.01	0.9	
40.0V	10.35	5.15	3.37	2.44	1.95	1.6	1.35	1.18	1.04	0.92	

Discharge Curves

SDA10-4850 Discharge time at different load power



Declaration: This information is generally descriptive only and is not intended to make or imply any representation, guarantee or warranty with respect to any cells and batteries. Cell and battery designs/specifications are subject to modification without notice. Contact CHINASHOTO for the latest information.