

SDA10-4810

Lithium-ion battery system for telecom



SHUANGDENG GROUP

shoto

Application Scenarios

- Backup Power Supply For FTTB, FTTH, ONU, EPON
- applicable to stable grid, half-grid and other scenes

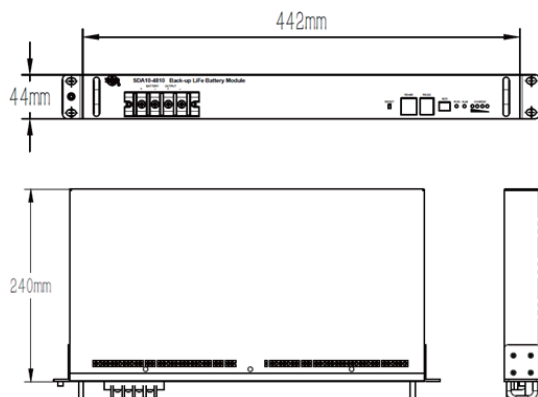
Key advantages

- 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
- UL
- UN38.3

Overall dimensions



Technical Parameters

Item	Parameters		
1. Performance Parameter			
Model	15S	16S	
Nominal voltage	48V	51.2V	
Rated capacity	10Ah(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)	2A	2A	
Discharge current (Maximum)	10A	10A	
Discharge cut-off voltage	40V	40V	
Dimensions	Width	442±1mm	442±1mm
	Height	44±1mm	44±1mm
	Depth	240±1mm	240±1mm
Weight	About 7.5±1kg	About 7.8±1kg	
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	M4		
Alarm and protection	Over voltage, under voltage, short circuit, overload, over current, over temperature, low temperature protection, etc.		
3. Working Condition			
Altitude	Self-cooling		
Humidity	≤4000m		
Operating temperature	5%-95%		
Operating temperature	Charge	-5°C~+45°C	
	Discharge	-20°C~+55°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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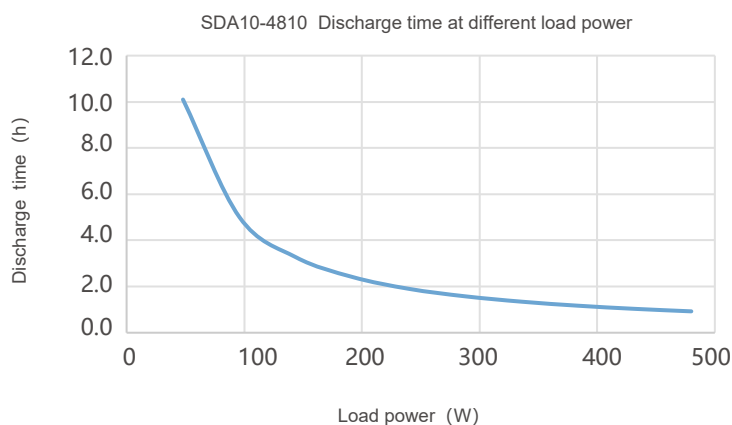
SDA10- 4810 series Constant Current Discharge Characteristics (25°C,77°F)

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	

SDA10-4810 Constant Power Discharge Characteristics (25°C,77°F)

Voltage	Power/W		Time/h								
	48	96	144	192	240	288	336	384	432	480	
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



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.

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