

SDA10-4820

Lithium-ion battery system for telecom



shoto

Application Scenarios

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

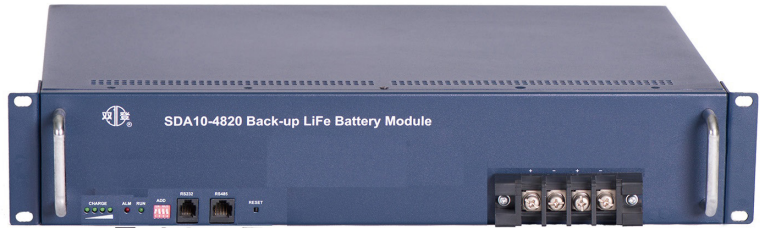
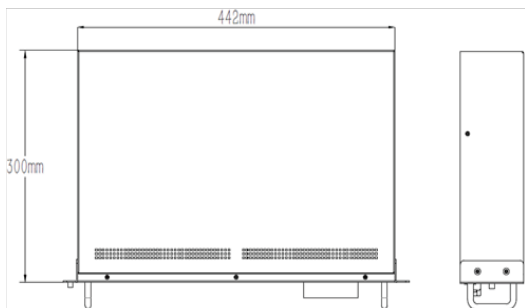
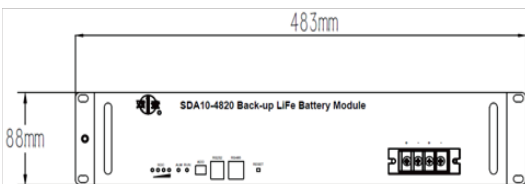
Key advantages

- 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

Overall dimensions



Technical Parameters

Item	Parameters	
1. Performance Parameter		
Model	15S	16S
Nominal voltage	48V	51.2V
Rated capacity	20Ah(C ₃ , 0.2C to 40V at 25 °C)	
Operating voltage range	40V-56.4V	40V-57.6V
Boost charge/Float charge voltage	54.5V/52.5V	57.6V/54V
Charging current (current-limiting)	5A	5A
Discharge current (Maximum)	20A	20A
Discharge cut-off voltage	40V	40V
Dimensions	Width	442±1mm
	Height	88±1mm
	Depth	300±1mm
Weight	About 13.3±1 kg	About 14.2±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		
Altitude	Self-cooling	
Humidity	≤4000m	
Operating temperature	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~+40°C

Passion for Storage
and Green Energy

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SDA10- 4820 series Constant Current Discharge Characteristics (25°C,77°F)

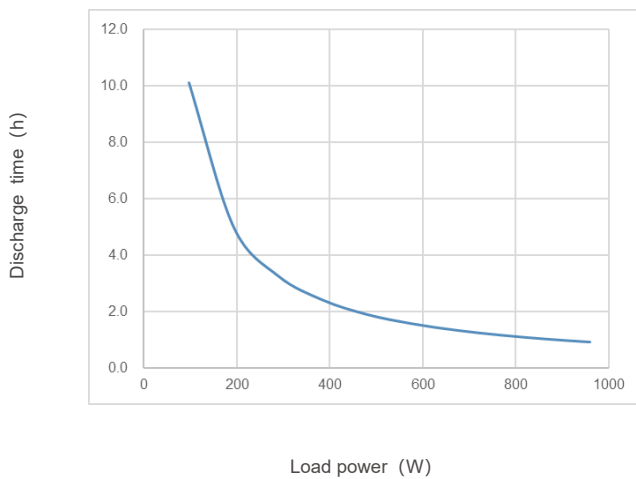
Voltage	Current/A		Time/h								
	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1C	
46.5V	9.55	4.7	3.04	2.2	1.67	1.33	1.06	0.87	0.69	0.54	
45.0V	9.89	4.87	3.19	2.34	1.82	1.49	1.24	1.03	0.87	0.72	
43.5V	10.12	4.97	3.27	2.42	1.9	1.55	1.3	1.13	0.99	0.87	
42.0V	10.3	5.1	3.34	2.47	1.95	1.62	1.36	1.18	1.03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

SDA10-4820 Constant Power Discharge Characteristics (25°C,77°F)

Voltage	Power/W		Time/h								
	96	192	288	384	480	576	672	768	864	960	
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

SDA10-4820 Discharge time at different load power



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