

SDA10-48150

Lithium-ion battery system for telecom



SHUANGDENG GROUP

shoto

Application Scenarios

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

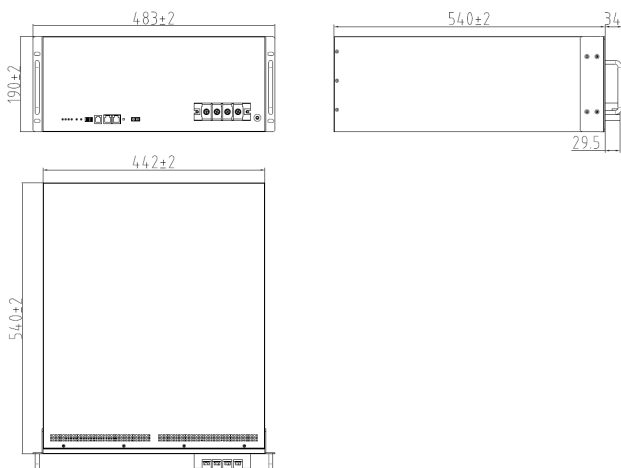
Key advantages

- 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): Dry Contact/Breaker

Product Certificates

- ISO9001
- ISO14001
- CE
- UN38.3
- UL

Overall dimensions



Technical Parameters

Item	Parameters	
1. Performance parameters		
Model	15S	
Nominal voltage	48V	
Rated capacity	150Ah(C ₅ , 0.2C to 40V at 25°C)	
Operating voltage range	40V-54.8V	
Boost charge/Float charge voltage	54.5V/51.7V	
Charging current (current-limiting)	10A	
Charging current (Maximum)	100A	
Discharge current (Maximum)	100A	
Discharge cut-off voltage	40V	
Dimensions	Width	442±2mm
	Height	190±2mm
	Depth	540±2mm
Weight	About 55.5±2kg	
2. Function Description		
Installation method	Rack mounted / Wall mounted	
Communication interface	RS232/RS485*2/Dry contact*2	
Indicator state	ALM/RUN/SOC	
Parallel communication	Maximum support for 16 sets of parallel	
Terminal stud	M8	
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	0°C~+45°C
	Discharge	-20°C~+50°C
Recommended operating temperature	Charge	+15°C~+35°C
	Discharge	+15°C~+35°C
	Storage	+20°C~+35°C

Passion for Storage
and Green Energy

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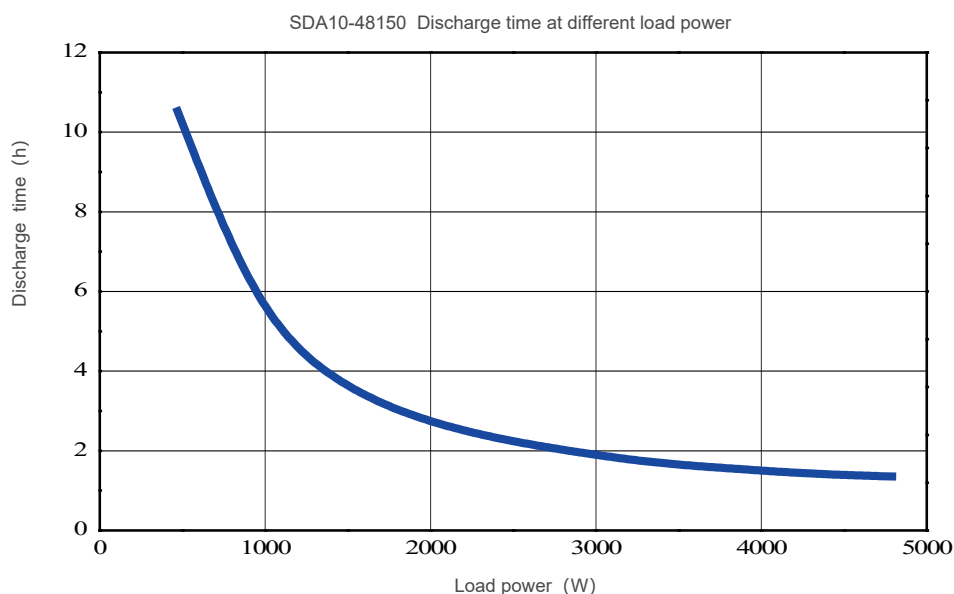
SDA10-48150 Constant Current Discharge Characteristics (25°C,77°F)

Voltage	Current/A						
	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.67C
46.5V	9.55	4.70	3.04	2.20	1.67	1.33	1.06
45.0V	9.89	4.87	3.19	2.34	1.82	1.49	1.24
43.5V	10.12	4.97	3.27	2.42	1.90	1.55	1.30
42.0V	10.30	5.10	3.34	2.47	1.95	1.62	1.36
40.0V	10.50	5.20	3.41	2.54	2.00	1.65	1.40

SDA10-48150 Constant Power Discharge Characteristics (25°C,77°F)

Voltage	Power/W						
	720	1440	2160	2880	3600	4320	4800
46.5V	9.54	4.69	3.02	2.18	1.65	1.32	1.05
45.0V	9.88	4.85	3.17	2.32	1.8	1.47	1.22
43.5V	10.1	4.95	3.24	2.41	1.89	1.53	1.28
42.0V	10.28	5.1	3.33	2.43	1.92	1.58	1.31
40.0V	10.35	5.15	3.37	2.44	1.95	1.6	1.35

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.

