

SDA10-48100

Smart-Li battery system for telecom



Application Scenarios

FTTB, FTTH, RRU, BBU, and other small mobile telecom fields. Telecom energy storage scenarios such as telecom base stations, central server rooms, etc.

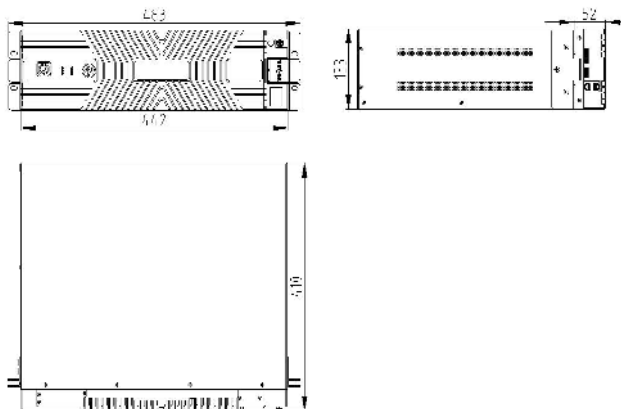
Key advantages

- Battery left with a reserved interface, optional Bluetooth module, through the APP, real-time monitoring of battery status.
- It can work directly under the condition that the charging and discharging working mode of the original telecom DC switching power supply system remains unchanged.
- Battery management system with bi-directional DC power conversion technology, With bi-directional voltage increase and decrease function.
- Smart lithium batteries can be used directly in parallel with the site's stock of batteries.
- Support up to 32 groups of batteries in parallel
- Use constant current and voltage working mode during working period and adjustable current limit for charging and discharging.
- Flexible expansion of the compatible use of old batteries and lead-acid batteries.
- The working voltage is adjustable, and the transmission loss is significantly reduced under the condition of meeting the DC long-distance supply.
- Support a variety of ways to activate and force down the power function, with maintenance mode.

Product Certificates

- ISO9001
- ISO14001
- UN38.3

Overall dimensions



Technical Parameters

Project	Indicator	
1、Performance Parameter		
Model	Smart Lithium-48100(15S)	
Nominal voltage	48V	
Rated capacity	100Ah(C ₃ , 0.2C to 40V at 25 °C)	
Working voltage range	40V-60V	
Balanced / floating charging voltage	54.5V/52.5V	
Discharge voltage	43.2V ~ 57.0V	
Constant pressure discharge	44.0V ~ 57.0V, Default 53.0V	
Maximum discharge power	4800W	
Charging current (flow-limiting)	10A (Adjustable)	
Charging current (max)	100A	
Discharging current(maximum)	100A	
Discharge cut-off voltage	40V	
Weight	40±2kg	
Size (W*D*H)	442mm*410mm*133mm(±2mm)	
2、Functional description		
Installation method	Recessed / Wall Mount	
Communication Interface	RS485*2/Dry contact*2	
Indication status	ALM/RUN/SOC	
Parallel Communication	Maximum 32 groups	
Parallel load power	Max. powers≤24kW	
Terminal screw	M6	
3、Working conditions		
Heat dissipation method	Self-cooling heat dissipation	
Altitude	≤4000m	
Humidity	5%-95%	
Storage temperature	-40°C ~ +70°C	
Working temperature	Charge	-5°C~+45°C
	Discharge	-20°C~+50°C
Recommended 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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SDA10-48100 (25°C) Constant current discharge data sheet

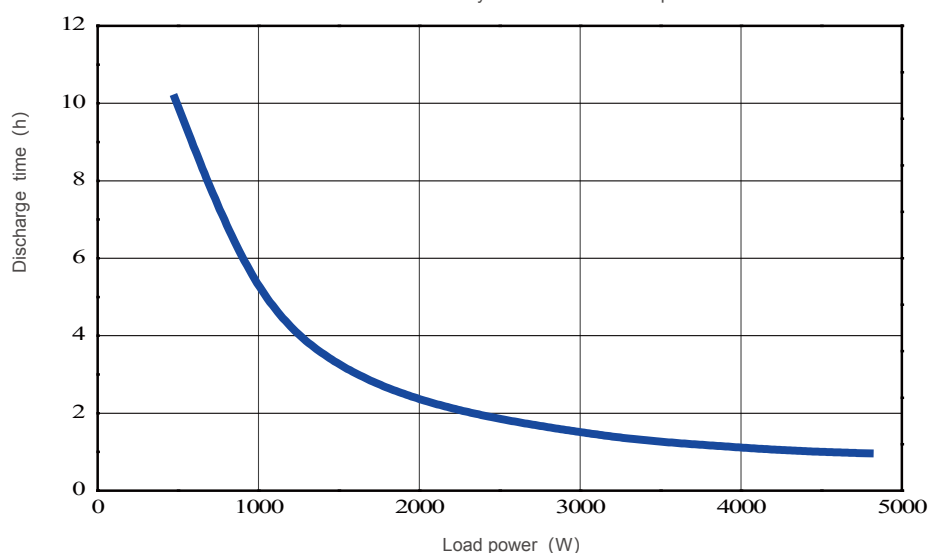
Voltage	Current/A										
	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1C	
46.5V	9.55	4.7	3.04	2.2	1.67	1.33	1.06	0.87	0.69	0.54	
45.0V	9.89	4.87	3.19	2.34	1.82	1.49	1.24	1.03	0.87	0.72	
43.5V	10.12	4.97	3.27	2.42	1.9	1.55	1.3	1.13	0.99	0.87	
42.0V	10.3	5.1	3.34	2.47	1.95	1.62	1.36	1.18	1.03	0.92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

DA10-48100 (25°C) Constant power discharge data sheet

Voltage	Power/W										
	480	960	1440	1920	2400	2880	3360	3840	4320	4800	
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 power curve

SDA10-48100 Stand by 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.