

SDA10-48100

Smart-Li battery system for telecom



Application Scenarios

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

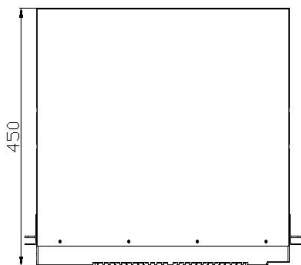
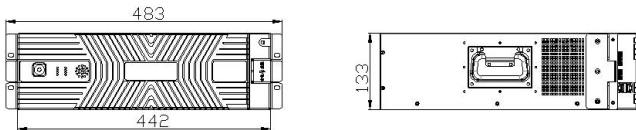
Key advantages

- High energy density: more energy with less weight and footprint
- High current charge discharge performance is excellent: continuous 1C discharge
- Long battery life (up to 3 times the battery life of a conventional battery)
- High performance BMS module meets constant current, constant voltage and constant power output
- Compatible with most use scenarios, and good compatibility with different backup batteries (lithium battery and lead-acid battery)
- BMS system can accurately detect battery SOC and SOH
- Multiple anti-theft solutions (optional): software, gyroscope, material.
- Meet the demand of 57V boost
- Superior temperature characteristics: the panel adopts die casting aluminum scheme, self cooling and no noise, and the working temperature can reach -20 ~ +50 °C

Product Certificates

- ISO9001
- ISO14001
- UN38.3

Overall dimensions



Technical Parameters

Item	Parameters	
1. Performance parameters		
Model	15S	
Nominal voltage	48V(adjustable voltage, adjustable range 40V ~ 60V)	
Rated capacity	100Ah(C ₅ , 0.2C to 40V at 25 °C)	
Operating voltage range	40V-60V	
Boost charge/Float charge voltage	54.5V/52.5V	
Charging current (current-limiting)	10A(adjustable)	
Charging current (Maximum)	100A	
Discharge current (Maximum)	100A	
Discharge cut-off voltage	40V	
Dimensions	Width	442±1mm
	Height	133±1mm
	Depth	450±1mm
Weight	About 42±1kg	
2. Function Description		
Installation method	Rack mounted / Wall mounted	
Communication interface	RS485*2/Dry contact*2	
Indicator state	ALM/RUN/SOC	
Parallel communication	Maximum support for 32 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	-20°C~+35°C

Passion for Storage and Green Energy

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SDA10- 48100 series Constant Current Discharge Characteristics (25°C,77°F)

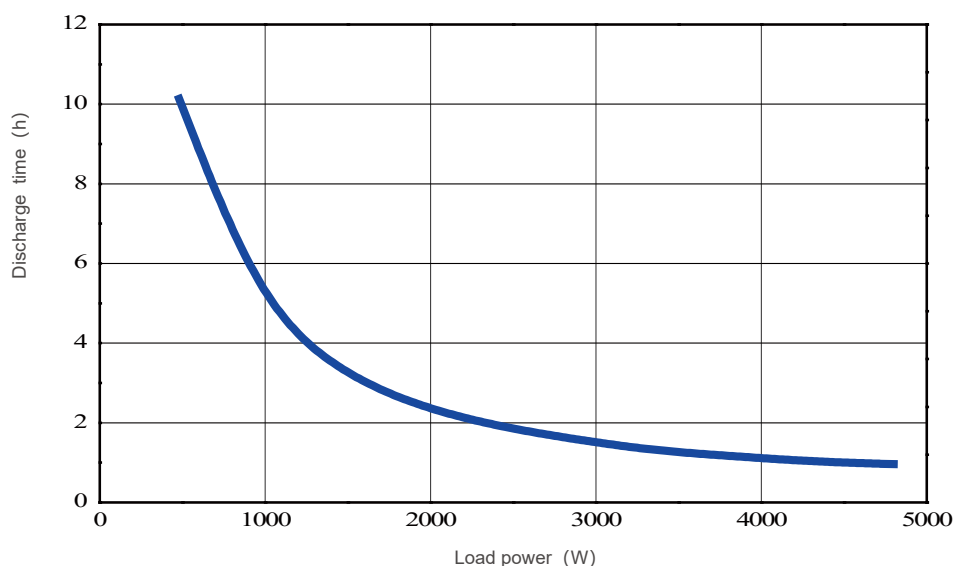
Voltage	Current/A		Time/h								
	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1C	
46.5V	9.55	4.7	3.04	2.2	1.67	1.33	1.06	0.87	0.69	0.54	
45.0V	9.89	4.87	3.19	2.34	1.82	1.49	1.24	1.03	0.87	0.72	
43.5V	10.12	4.97	3.27	2.42	1.9	1.55	1.3	1.13	0.99	0.87	
42.0V	10.3	5.1	3.34	2.47	1.95	1.62	1.36	1.18	1.03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

SDA10-48100 Constant Power Discharge Characteristics (25°C,77°F)

Voltage	Power/W		Time/h								
	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 Curves

SDA10-48100 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.