

# SDA10-48100

Lithium-ion battery system



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
- UN38.3
- UL



## Technical Parameters

Item	Parameters	
1. Performance parameters		
Model	15S	16S
Nominal voltage	48V	51.2V
Rated capacity	100Ah(C <sub>5</sub> , 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 )	10A	10A
Charging current (Maximum)	100A	100A
Discharge current (Maximum)	100A	100A
Discharge cut-off voltage	40V	40V
Dimensions	Width	442±1mm
	Height	133±1mm
	Depth	420±1mm
Weight	About 40.7±1kg	About 41.8±1kg
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	-5℃~+45℃
	Discharge	-20℃~+50℃
Recommended operating temperature	Charge	+15℃~+35℃
	Discharge	+15℃~+35℃
	Storage	-20℃~+35℃

Passion for Storage  
and Green Energy

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

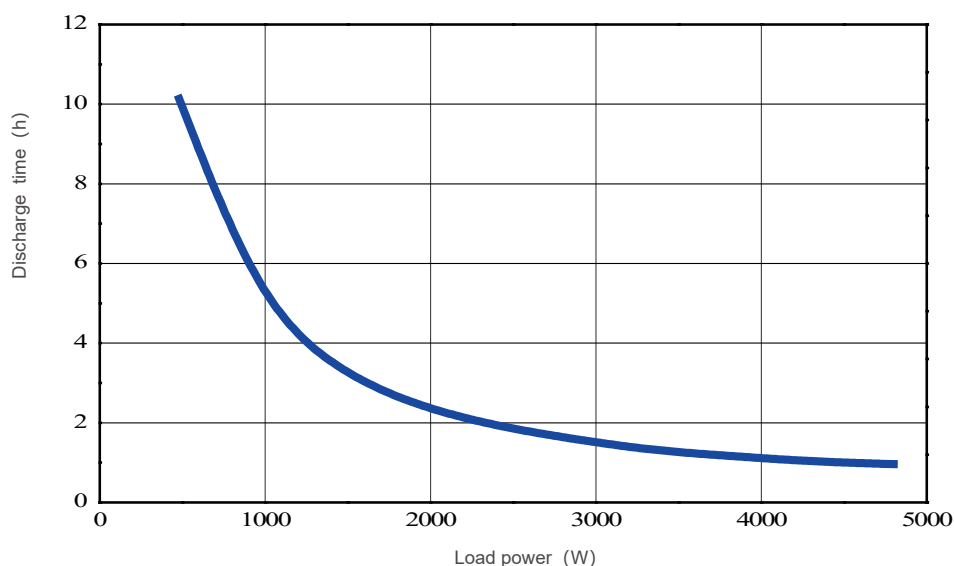
Voltage	Current/A		Time/h								
	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1C	
46.5V	9.55	4.7	3.04	2.2	1.67	1.33	1.06	0.87	0.69	0.54	
45.0V	9.89	4.87	3.19	2.34	1.82	1.49	1.24	1.03	0.87	0.72	
43.5V	10.12	4.97	3.27	2.42	1.9	1.55	1.3	1.13	0.99	0.87	
42.0V	10.3	5.1	3.34	2.47	1.95	1.62	1.36	1.18	1.03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

