

SDA10-48100

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

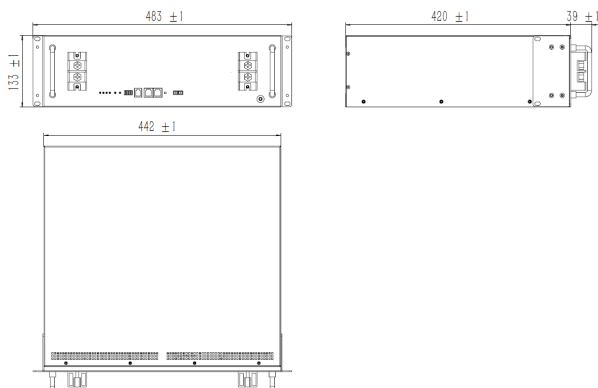
Key advantages

- 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
- Other functions (optional): Dry Contact

Product Certificates

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

Overall dimensions



Technical Parameters

Item		Parameters	
1. Performance parameters			
Model		15S	
Nominal voltage		48V	
Rated capacity		100Ah(C ₅ ,0.2C to 43.2V at 25 ℃)	
Operating voltage range		43.2V-54.0V	
Charge voltage		54V-57.6V	
Charging current (current-limiting)		10±A	
Charging current (Maximum)		100A	
Discharge current (Maximum)		100A	
Discharge cut-off voltage		43.2V	
Dimensions	Width	442±1mm	
	Height	133±1mm	
	Depth	420±1mm	
Weight		About 39±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	-5℃~+55℃
		Discharge	-20℃~+55℃
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)

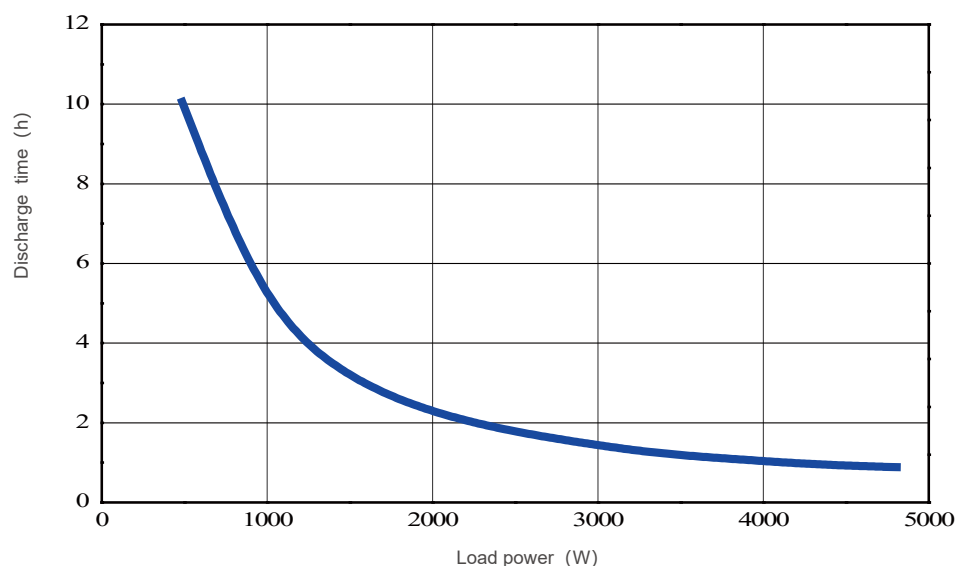
Current/A Voltage Time/h	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1C
46.5V	9.87	4.85	3.25	2.43	1.95	1.54	1.38	1.19	1.05	0.87
45.0V	10.08	4.96	3.32	2.49	1.99	1.64	1.42	1.23	1.10	0.97
43.2V	10.22	5.03	3.37	2.53	2.03	1.67	1.46	1.25	1.12	0.99
42.0V	10.28	5.07	3.39	2.55	2.04	1.69	1.47	1.26	1.13	1.00

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

Power/W Voltage Time/h	480	960	1440	1920	2400	2880	3360	3840	4320	4800
46.5V	9.85	4.89	3.29	2.44	1.92	1.61	1.35	1.16	1.02	0.82
45.0V	10.04	4.99	3.35	2.50	1.97	1.65	1.40	1.21	1.07	0.93
43.2V	10.17	5.06	3.40	2.53	2.00	1.67	1.43	1.23	1.09	0.95
42.0V	10.23	5.09	3.42	2.55	2.01	1.68	1.44	1.24	1.10	0.96

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.



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