SDA10-4850

Lithium-ion battery system for telecom



Application Scenarios

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

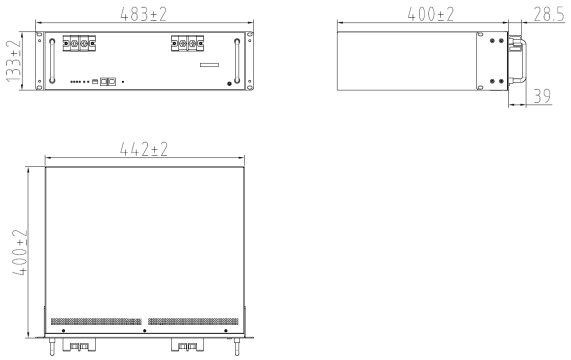
Key advantages

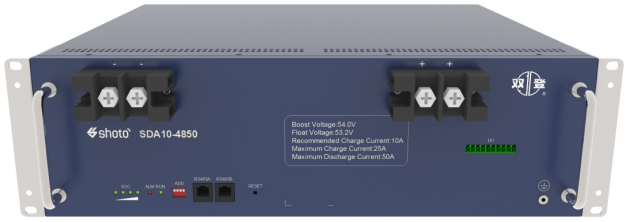
- High energy density: more energy with less weight and footprint
- High charge and discharge currents (short charge period)
- High effciency between charging and discharging
- Higher continual power available
- Wide operating temperature
- Predictable end of life due BMS controller
- Other functions (optional): Dry Contact

Product Certificates

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

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Technical Parameters

Item		Parameters
1、Performance parameters		
Model		15S
Nominal voltage		48V
Rated capacity		50Ah(C_3 ,0.2C to 40V at 25 ℃)
Operating voltage range		40V-56.4V
Boost charge/Float charge voltage		54.0V/53.2V
Charging current (current-limiting)		10A
Charging current (Maximum)		25A
Discharge current (Maximum)		50A
Discharge cut-off voltage		40V
Dimensions	Width	442±2mm
	Height	133±2mm
	Depth	400±2mm
Weight		About 23±2kg
2、Function Description		
Installation method		Rack mounted / Wall mounted
Installation method		RS232/RS485
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℃~+55℃
	Discharge	-20℃~+55℃
Recommended operating temperature	Charge	+15℃~+35℃
	Discharge	+15℃~+35℃
	Storage	+10℃~+35℃

Passion for Storage and Green Energy

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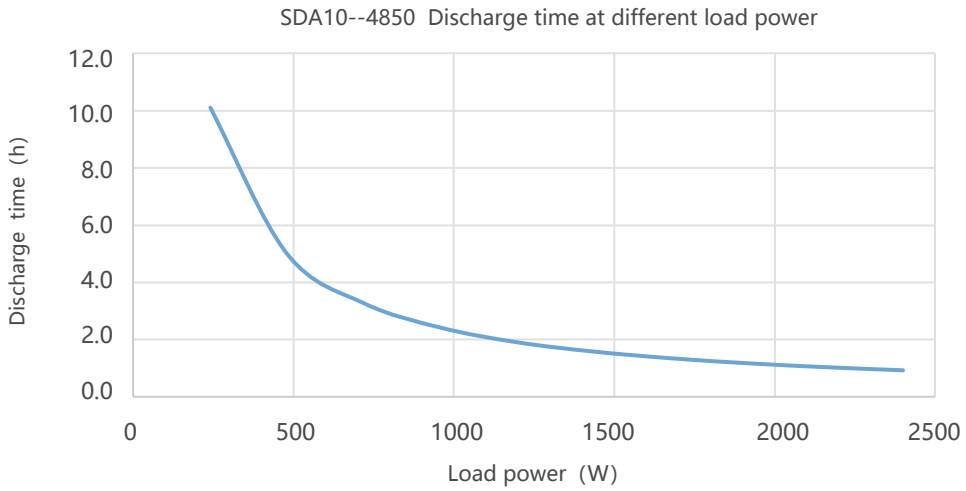
SDA10-4850 Constant Current Discharge Characteristics (25℃,77℉)

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	9.55	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

SDA10-4850 Constant Power Discharge Characteristics (25℃,77℉)

Current/A / Voltage / Time/h	240	480	720	960	1200	1440	1680	1920	2160	2400
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





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.