

SDA10-48100

Lithium-ion battery system for telecom



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Application Scenarios

Backup Power Supply For FTTB、FTTH、ONU、EPON

applicable to stable grid, half-grid and other scenes

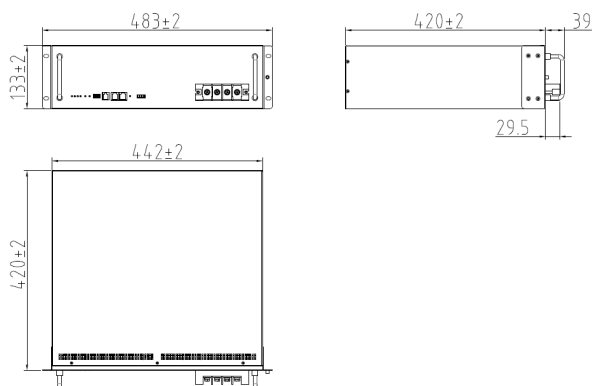
Key advantages

- 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): Fan/Gyro

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 40V at 25 ℃)	
Operating voltage range		40V-56.4V	
Boost charge/Float charge voltage		54.5V/52.5V	
Charging current (current-limiting)		10A	
Charging current (Maximum)		100A	
Discharge current (Maximum)		100A	
Discharge cut-off voltage		40V	
Dimensions	Width	442±2mm	
	Height	133±2mm	
	Depth	420±2mm	
Weight		About 41±3kg	
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 Constant Current Discharge Characteristics (25°C,77°F)

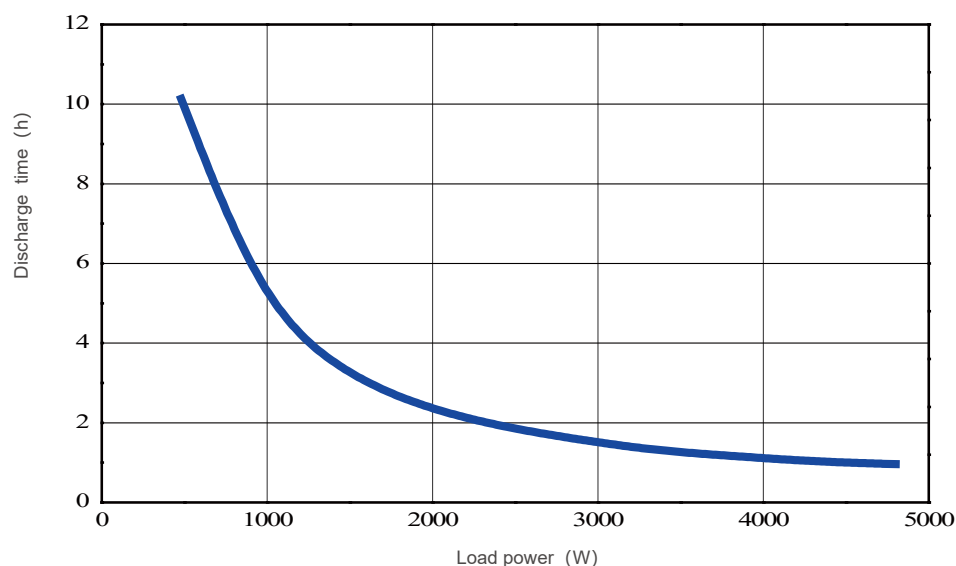
Voltage Time/h	Current/A									
	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1C
46.5V	9.55	4.70	3.04	2.20	1.67	1.33	1.06	0.87	0.69	0.54
45.0V	9.89	4.87	3.19	2.34	1.82	1.49	1.24	1.03	0.87	0.72
43.5V	10.12	4.97	3.27	2.42	1.90	1.55	1.30	1.13	0.99	0.87
42.0V	10.30	5.10	3.34	2.47	1.95	1.62	1.36	1.18	1.03	0.92
40.0V	10.50	5.20	3.41	2.54	2.00	1.65	1.40	1.22	1.07	0.95

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

Voltage Time/h	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 Curves

SDA10-48100 Discharge time at different load power



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