

SDA10-48150

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

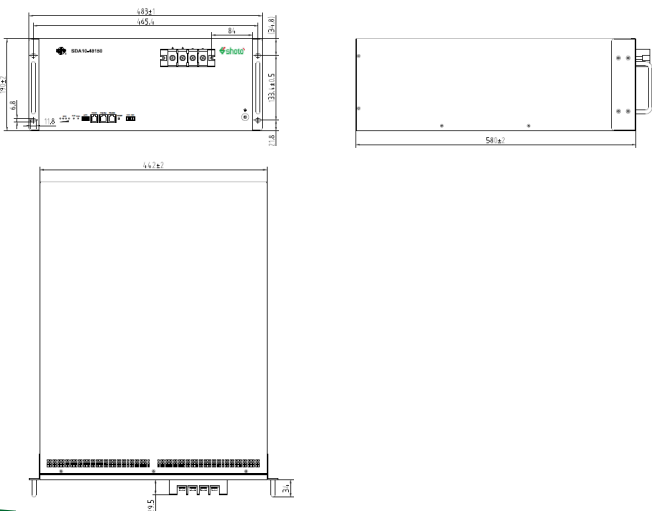
Key advantages

- 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
- Multiple anti-theft solutions (optional): software, gyroscope, material, etc.
- Other functions (optional): Heating/LCD/Dry Contact

Product Certificates

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

Overall dimensions



Technical Parameters

Item		Parameters	
1. Performance parameters			
Model		15S	16S
Nominal voltage		48V	51.2V
Rated capacity		150Ah(C ₅ ,0.2C to 40V at 25 ℃)	
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	442±1mm
	Height	191±1mm	191±1mm
	Depth	580±1mm	580±1mm
Weight		About 65.7±1kg	About 68.8±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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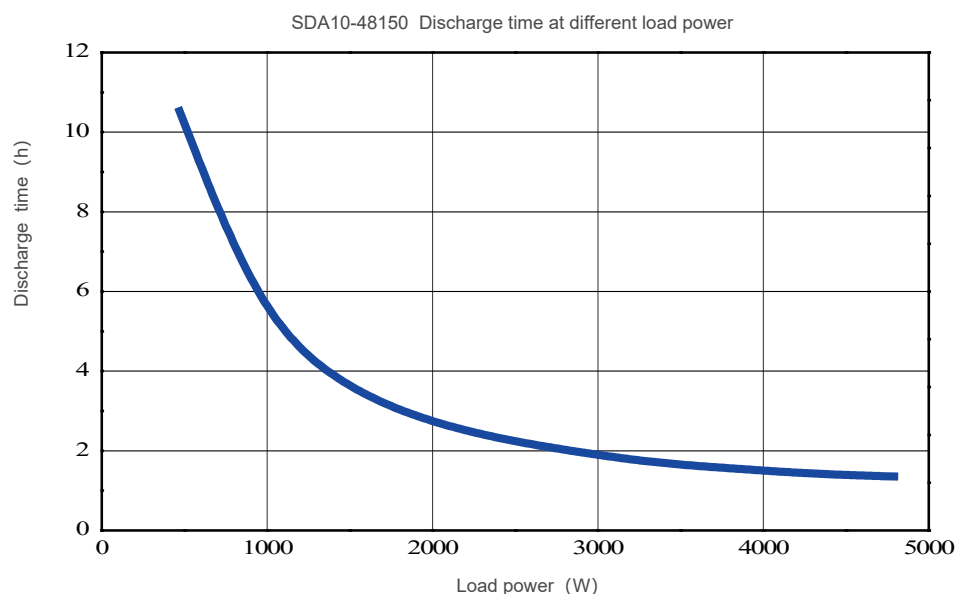
SDA10- 48150series Constant Current Discharge Characteristics (25°C,77°F)

Voltage	Current/A	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.67C
	Time/h							
46.5V		9.55	4.70	3.04	2.20	1.67	1.33	1.06
45.0V		9.89	4.87	3.19	2.34	1.82	1.49	1.24
43.5V		10.12	4.97	3.27	2.42	1.90	1.55	1.30
42.0V		10.30	5.10	3.34	2.47	1.95	1.62	1.36
40.0V		10.50	5.20	3.41	2.54	2.00	1.65	1.40

SDA10-48150 Constant Power Discharge Characteristics (25°C,77°F)

Voltage	Power/W	720	1440	2160	2880	3600	4320	4800
	Time/h							
46.5V		9.54	4.69	3.02	2.18	1.65	1.32	1.05
45.0V		9.88	4.85	3.17	2.32	1.80	1.47	1.22
43.5V		10.10	4.95	3.24	2.41	1.89	1.53	1.28
42.0V		10.28	5.10	3.33	2.43	1.92	1.58	1.31
40.0V		10.35	5.15	3.37	2.44	1.95	1.60	1.35

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.



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