

SDC series

Lithium-ion battery system for energy storage

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ELECTRIC ENERGY STORAGE SYSTEM

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Application Scenarios

- Industrial and mining enterprise in the regions with limited electricity availability;
- Large office building, scientific researching park with demand of uninterruptable power supply;
- Railway stations, wharfs and airports with high traffic density;
- To reduce energy bills, in places with different energy costs tariffs shifting.

Product Introduction

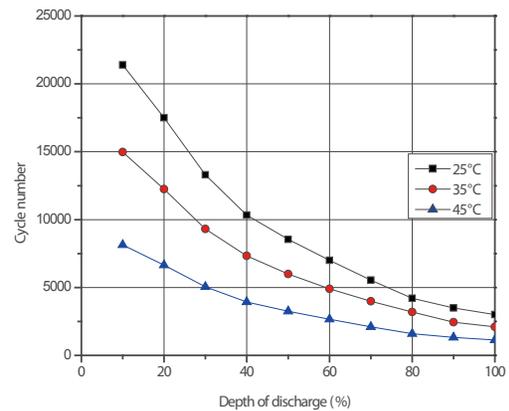
The latest distributed energy storage system designed by Shoto, which is installed at power node, can provide power supply for new energy for families, corporations, remote and mountain areas and outdoor temporary power station, etc. The system is based on the discharge capacity of PCS and capacity of storage battery, it adopts modular design and has strong expansibility, and it can also meet the power and energy requirements of different users. Individual cells can achieve more than 3000 cycles. Comprehensive protection design of software and hardware is designed to assure high safety and reliability of system. High-speed and real-time of PC control and communication networks ensure the timeliness and stability for data transfer.

Passion for Storage
and Green Energy

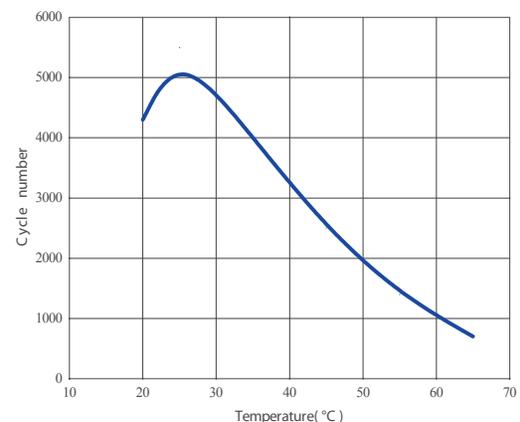


Cycle Life Curves

- (1) Cycle life curve under different DOD and temperature conditions for system



- (2) Cycle life curve under different temperature conditions for system



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Technical Parameters

Item	Parameters	
Model	SDC-656150	
1. Performance Parameter		
Nominal voltage	656V	
Nominal capacity	150Ah	
Rated energy	100kWh	
Pack technology	3P205S	
Operating voltage range	553.5V ~ 748.2V	
Charging voltage	750V	
Standard Charge current	30A	
Charge current (Maximum)	150A	
Discharge current (Maximum)	150A	
Discharge cut-off voltage	525V	
Dimensions	Battery cabinet	600mm*600mm*2200mm (× 3sets)
	System cabinet	600mm*600mm*2200mm
Weight	Battery cabinet	2000kg
	System cabinet	120kg
2. Function Description		
Installation method	19" rack mounted standard cabinet	
Communication interface	CAN bus	
Equilibrium method	Active balance	
Connection mode	M8 terminal	
Alarm and protection	Over voltage, under voltage, low SOC, overload, over current, overtemperature, insulation, etc.	
3. Working Condition		
Cooling mode	Automatic cold and hot	
Operating temperature	Charge	0°C ~ +45°C
	Discharge	-20°C ~ +50°C
Recommended operating temperature	Charge	+15°C ~ +35°C
	Discharge	+15°C ~ +35°C
	Storage	-10°C ~ +45°C
Working humidity	5% ~ 95%RH	
Storage humidity	45% ~ 85%RH	