SDC10-Box5 LV Series

Embedded Household Energy Storage Lithium Battery System

SDC10-Box5 series are suitable for 51.2V low voltage ESS. It adopts high safety, high cycle, high reliability and minimalist design. The system can be parallelled, with capacity extended to 81kWh, applied in grid-connected, off-grid, photovoltaic and all kinds of green and low-carbon applications of household ESS.

5.1 | 10.2 | 15.3 | 20.4 kWh

Minimalist design

3U standardized module,
19, 23 inch embedded compatible design,
Easy maintenance and expansion.

Wide Compatibility

The system matches 20+ brand mainstream inverters,
And support custom protocol development.

Ultra-Long Life

Ultra-long cycle cell, design life of 15 years,
The system can perform up to 6000 cycles.

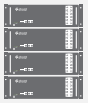
High Security

Shoto's self-produced 100Ah
LFP Prismatic Cell, which is highly safe and reliable.

High Scalability

Optional extension functions:
Quick plug terminal, Bluetooth,
LCD monitoring display module, etc.

Technical Parameters

Model	SDC10-Box5	SDC10-Box10	SDC10-Box15	SDC10-Box20
				
Battery Module	Box5*N			
Cell Type	100Ah LFP Prismatic Cell			
Number of Modules	1	2	3	4
System Nominal Energy[1]	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Available System Nominal Energy	4.86kWh	9.72kWh	14.6kWh	19.45kWh
Nominal Voltage	51.2V			
Operating Voltage Range	45.0 - 56.4V			
Max. Output Power	4.1kW	5.12kW	7.68kW	10.24kW
Peak Output Power	5.4kW,10S	10.0kW,10S	15.0kW,10S	15.0kW,10S
Max. Charging Current	50A	100A	150A	150A
Max. Discharge Current	100A	150A	190A	230A
Charge and Discharge Efficiency	≥97%			
General				
Dimensions [W*H*D][2]	443*135*440mm	484*330*440mm	484*495*440mm	484*660*440mm
Weight[3]	40kg	85kg	127.5kg	170kg
Communication	CAN/RS485			
Installation	Rack/Wall Mounted			
Enclosure Rating	IP20			
25℃ Cycle Life	≥6000Cycles @80%DOD&70%EOL			
Operating Temperature[4]	Charge: -5~45℃; Discharge: -20~50℃; Recommended: 15~35℃			
Operating Humidity	5%~95%[Non-Condensing]			
Cooling Mode	Natural Cooling			
Operating Altitude	≤4000m			
Safety/Standards				
Certification	UL1973、IEC62477、IEC62619、CE-EMC、VDE2510-50、CEI0-21、UKCA、UN38.3			
Matching Inverter[5]	Deye、Growatt、Goodwe、Victron、Sofar、SMA 、SRNE、LUX、Solis、TBB、Soruide、Megarevo、Sungrow、Afore、Sacolar、SMK solar、Voltronic			

* Note:
[1] Test environment: 0.2C charge and discharge @25℃&100%DOD; [2] The size of a single battery, not including the base, more than 2 including the base;
[3] Weight error ±2kg; [4] -5℃~10℃, power reduction of 10%~15%; [5] The matching inverter brand is updated periodically

* Declaration:
This information is only a brief description of the product performance, if you need the latest product information, please contact our business personnel or log in to the official website to download.

UN38.3

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