



Embedded Household Energy Storage Lithium Battery System

SDC10-Box16 - LV Series 16.08 kWh

SDC-Box16 series embedded household lithium battery products are suitable for the use of 51.2V low-voltage energy storage system, the system adopts the design concept of high safety, high cycle, high reliability and minimalist, the parallel system capacity can be expanded to 321.6kWh, the system supports matching various mainstream brands of inverters, and is used in new energy household energy storage systems for grid-connected, off-grid, photovoltaic and various green and low-carbon applications.



Minimalist design

standardized module, 19-inch embedded compatible design, Easy to maintain and expand.



Wide Compatibility

The system supports customized protocol development.



Ultra-Long Life | 6000 Cycles @ Dod 80%
(Ultra-long Life cycle cell, designed for 15 years)



High Scalability

Optional extension functions:
Fire protection module, Bluetooth, etc.



High Security

Self-produced 314Ah LFP Prismatic Cell, which is highly safe and reliable.



6-Year Warranty

Comes with a full 6-year warranty for long-term, reliable performance.



Rizon Technologies

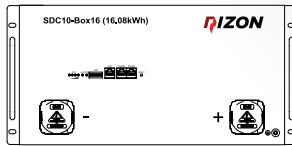
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Technical Parameters

Model	SDC10-Box16
	
Cell Type	314Ah LFP Prismatic Cell
Nominal Energy ^[1]	16.08kWh
Available Nominal Energy	14.472kWh
Nominal Voltage	51.2V
Operating Voltage Range	45-56.4V
Max. Output Power	4.1kW
Peak Output Power	5.4kW, 10s
Max. Charging Current	75A
Max. Discharge Current	100A
Charge and Discharge Efficiency	≥95%
Max. Number of Parallels	20
General	
Dimensions [W*H*D] ^[2]	484*233*700mm
Weight ^[3]	113.5kg
Communication	CAN/RS485
Installation	Rack-mounted
Enclosure Rating	IP20
Operating Temperature ^[4]	Charge: -5-50°C; Discharge: -15-50°C; Recommended 15-35°C
Operating Humidity	5%-95%[Non-Condensing]
Cooling Mode	Natural Cooling
Operating Altitude	≤4000m
Safety/Standards	
Certification	UN38.3

* Note:

[1] Test environment: 0.2C charge and discharge @25°C&100%DOD;

[2] Dimensional error ±2mm;

[3] Weight error ±2kg;

[4] -5°C-10°C, power reduction of 10%-15%;