

SDA10-48100 LV Series

Residential Energy Storage Lithium Battery System

SDA10-48100 series are suitable for 51.2V low voltage ESS. It adopts high safety, high cycle, high reliability and minimalist design. The system can be paralleled, applied in grid-connected, off-grid, photovoltaic and all kinds of green and low-carbon applications of residential ESS.



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

Ohisama'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

51.2V Module (BMS Integrated)				
				
Battery Module	SDA10-48100 (16S)*N			
Cell Type	Lithium Iron Phosphate (LiFePO ₄)			
Number of Modules	1	2	3	4
System Nominal Energy^[1]	5.12kWh	10.24kWh	15.36kWh	20.48kWh
Depth of Discharge	80%			
Nominal Voltage	51.2V			
Charge Voltage	56.4 - 57.6V			
Discharge Voltage	48.0 - 53.0V			
Max. Output Power	4.1kW	5.12kW	7.68kW	10.24kW
Peak Output Power	5.4kW, 10 sec	10.0kW, 10 sec	15.0kW, 10 sec	15.0kW, 10 sec
Max. Charging Current^[2]	50A	100A	150A	150A
Max. Discharge Current^[3]	100A	150A	190A	230A
Charge and Discharge Efficiency	≥97%			
Parallel Quantity Maximum	16 pieces			
General				
Dimensions [W*H*D]^[4]	443*135*440mm	484*330*440mm	484*495*440mm	484*660*440mm
Weight^[5]	40kg	85kg	127.5kg	170kg
Communication	CAN/RS485			
Installation	Self-Stacked/Wall Mounted			
Enclosure Rating	IP20 Indoor			
25°C Cycle Life	≥6000 Cycles @ 80% DOD & 70% EOL			
Operating Temperature^[6]	Charge: -5~45°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	CE / RoHS / CEI 0-21 for Italy with DEYE Inverters			
Compatible Inverter^[7]	Deye, Growatt, Goodwe, Victron, Sofar, SMA, SRNE, LUX, Solis, TBB, Soruide, Megarevo, Sungrow, Afore, Sacolar, SMK Solar, Voltronic			
Warranty	5 years			

* Note:
 [1] Test environment: 0.2C charge and discharge @25°C&100%DOD; [2][3] The indicated value is a standard reference. Set the exact value according to the Battery User Manual (page 24). Incorrect settings may damage the BMS and void the warranty. [4] The size of a single battery, not including the base, more than 2 including the base; [5] Weight error ±2kg; [6] -5°C~10°C, power reduction of 10%~15%. [7] The compatible 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.