LITHIUMVALLEY

YOUR SAFE ENERGY

Version:V1.0

15-year Design Lifespan
A+ Grade Lithium Iron Phosphate Cells

SC208L100P-06W 208kWh-100kW
SC261L125P-06W 261kWh-125kW

- Active Balancing BMS Technology
- Supports up to 10 units in parallel
- Integrated Solar-Storage-Diesel Hybrid BESS
- Seamless On-grid/Off-grid Switching

Liquid Cooled Battery
All-in-One C&I BESS

Features and Advantages

Safety Technology

- A+ grade lithium iron phosphate
- The system is configured with a multi-level fuse protection
- Built-in aerosol fire extinguishing systems at the package and rack levels

Easy to Install and Use

- Highly integrated for ease of transportation installation and deployment
- Modular design with flexible system capacity configuration

Flexible and Expandable

- 6 units in parallel, system capacity 750 kW/1567 kWh
- Supports up to 10 units in parallel, system capacity 1250 kW/2612 kWh, >6 pcs recommend Solis power distribution cabinet

Energy Management System

- Emergency power supply
- Peak shaving
- Demand mitigation
- Self-consumption
- Micro-grids
- Price arbitrage

System Technical Parameters

Model	SC208L100P-06W	SC261L125P-06W
Battery Data		
Nominal Energy	208.9kWh	261.2kWh
Nominal Voltage	665.6V	832V
Battery Model	SC52G04-314	SC52G05-314
Battery Chemistry	Lithium Iron Phosphate(LiFePO4)	
Cycle Life	≥8000 cycles(@25°C, 0.5P/0.5P)	
Cell Specification	3.2V 314Ah	
Battery Pack Energy	52.24kWh	
Rack Configuration	1P208S	1P260S
Number of Racks	1	
Operating Voltage	582.4V~759.2V	728~949V
Rated Charging Power	0.5P	
Rated Discharging Power	0.5P	
Safety		
Fire Extinguishing System	Aerosol fire extinguishing	
Inverter Data		
Rated Power	100kW	125kW
Please refer to the inverter section for more details.		
General		
Dimension(WxDxH)	1050 x 1430 x 2280mm	
Weight	Approximately 2350 kg	Approximately 2700 kg
IP Rating	IP54	
Cooling Method	Liquid cooling	
Operating Temperature	-20°C - +50°C	
Storage Temperature	-20°C - +45°C	
Relative Humidity	15% - 90%(Non-condensing)	
Max. Operating Altitude	≤3000m	
Communication Interfaces	LAN/CAN/RS485	
Compliance	IEC 62619, IEC/EN 61000, UN 38.3, MSDS	

* The actual product may have slight differences from some promotional videos or pictures. Please refer to the actual product. Unless otherwise specified, the data on this page are all from our company's laboratory. The data may have errors due to changes in the objective environment.
* The specifications are subject to change without prior notice.

Hybrid Inverter

Three Phase | High Voltage

- Rated Power:100/125kW

Inverter Features

- Supports PV input up to 200% of the inverter's rated DCpower,maximising solar utilisation
- AI-Powered & VPP-Ready - maximise savings unlock additional income
- Smart port enables multiple energy source inputs, including grid-tied inverters diesel generators, and wind turbines
- Supports battery charge/discharge current up to 200A, ideal for peak-valley arbitrage and frequency regulation applications
- Supports DC and AC coupling for PV, allowing flexible system expansion and retrofitting
- Supports up to 10 units in parallel. For systems with more than 6 units, use of a power distribution cabinet is recommended

Inverter Technical Parameters Part 1

Model	S6-EH3P100K10-NV-YD-H	S6-EH3P125K10-NV-YD-H
Input DC (PV side)		
Recommended max PV array size	200 kW	250 kW
Max. usable PV input power	200 kW	250 kW
Max. input voltage	1000 V	
Rated voltage	600 V	
Start-up voltage	180 V	
MPPT voltage range	150 - 950 V	
Max. input current	10 × 42 A	
Max. Short circuit current	10 × 60 A	
MPPT number/max. Input strings number	10 / 20	

Inverter Technical Parameters Part 2

Model	S6-EH3P100K10-NV-YD-H	S6-EH3P125K10-NV-YD-H
Battery		
Battery type	Li-ion	
Battery voltage range	300 - 950 V	
Max. charge / discharge current	200 A / 100 A + 100 A	
Number of battery ports	2	
Max. charge / discharge current of each port	100 A	
Communication	CAN / RS485	
Output AC(Grid side)		
Rated output power	100 kW	125 kW
Max. apparent output power	100 kVA	125 kVA
Rated grid voltage	3/N/PE, 220 V / 380 V, 230 V / 400 V	
Rated grid frequency	50 Hz / 60 Hz	
Rated grid output current	152 A / 144.3 A	
Power factor	> 0.99 (0.8 leading - 0.8 lagging)	
THDi	< 3%	
Input AC(Grid side)		
Max. input current	250 A	
Output AC(Back-up)		
Rated output power	100 kW	125 kW
Max. apparent output power	1.2 times of rated power, 10 mins; 1.4 times of rated power, 100 s; 1.6 times of rated power, 10 s; 2 times of rated power, 200 ms	1.2 times of rated power, 100 s; 1.4 times of rated power, 10 s; 1.6 times of rated power, 200 ms
Back-up switch time	< 10 ms	
Rated output voltage	3/N/PE, 220 V/ 380 V, 230 V/ 400 V	
Rated frequency	50 Hz / 60 Hz	
THDv (@linear load)	< 2%	
Input AC(Generator)		
Max. input power	100 kW	125 kW
Rated input current	151.9 A / 144.3 A	189.9 A / 180.4 A
Rated input voltage	3/N/PE, 220 V/ 380 V; 3/N/PE, 230 V/ 400 V	
Rated input frequency	50 Hz / 60 Hz	
Efficiency		
Max. efficiency	97.6%	
EU efficiency	97.2%	
BAT charged / discharged to AC max. efficiency	97.0%	
Protection		
Anti-islanding protection	Yes	
Output over current protection	Yes	
Short circuit protection	Yes	
Integrated DC switch	Yes	
DC reverse-polarity protection	Yes	
Surge protection	DC Type II / AC Type II	
Integrated AFCI 2.0	Optional	
Protection class/ Over voltage category	I/ DCII, ACIII	

Inverter Technical Parameters Part 3

Model	S6-EH3P100K10-NV-YD-H	S6-EH3P125K10-NV-YD-H
General Data		
Max. allowable phase imbalance (grid & back-up)	100%	
Max. power per phase (grid & back-up)	33.33 kW	41.66 kW
Dimensions (W× H × D)	1174 × 814 × 400 mm	
Weight	170 kg	
Topology	Transformerless	
Operating ambient temperature range	-25 ~ +60°C	
Relative humidity	0 - 100%	
Ingressprotection	IP66	
Cooling concept	Intelligent fan-cooling	
Max. operation altitude	3000 m	
Grid connection standard	G99, VDE-AR-N 4105/VDEV0124, EN 50549-1&2/EN 50549-10, VDE0126/UTEC15/VFR:2019, NTS631/RD 1699/RD 244/ UNE206006/UNE206007-1, CEI 0-21, C10/11, NRS097-2-1, TOR, EIFS2018.2, IEC62116, IEC61727, IEC60068, IEC61683, EN 50530, MEA, PEA,PORTARIA Nº 140, DE 21 DE MARÇO DE 2022	
Safety / EMCstandard	IEC/EN 62109-1/-2, IEC/EN 61000-6-2/-4, EN 55011	
Features		
PV connection	MC4 Quick connection plug	
Battery connection	Terminal connector	
AC connection	Terminal block	
Display	7.0" LCDdisplay & Bluetooth + APP	
Communication	CAN, RS485-115200, Ethernet, Optional: Wi-Fi, Cellular, LAN	

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