

SC208L50P-06W

SC156L50P-06W



A+ Grade Lithium Iron Phosphate Cells



15-year Design Lifespan

Version:V1.0

Liquid-Cooled Battery



Features and Advantages

Safety Technology

- A+grade lithium iron phosphate
- Multi-level fuse design with sequential protection
- Built-in package-level and rack-level gas aerosol fire extinguishing system

More Reliable

- The system is rigorously designed and tested to operate stably under various conditions
- Equipped with protections against overcharge over-discharge, and over-temperature to prevent accidents

Easy to Install and Use

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

Energy Management System

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

Technical Parameter

Model	SC208L50P-06W	SC156L50P-06W
Battery data		
Nominal Energy	208kWh	156kWh
Nominal Voltage	665.6V	499.2V
Battery Model	SC52T04-314	SC52T03-314
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	
String Configuration	1P208S	1P156S
Number of Strings	1	
Operating Voltage	582.4~759.2V	436.8~569.4V
Rated Charging Power	0.5P	
Rated Discharging Power	0.5P	
Safety		
Fire Suppression System	Aerosol fire extinguishing	
Inverter Data		
Rated Power	50 kW	
Please refer to the Inverter section for more details.		
General		
Dimensions (W x D x H)	1300mm x 1400mm x 1890mm	
Weight	Approximately 2000 kg	Approximately 1700 kg
IP Rating	IP54	
Cooling Method	Liquid cooling	
Operating Ambient Temperature Rang	-25°C - +55°C	
Relative Humidity	15% - 90%(Non-condensing)	
Max. Operating Altitude	≤3000m	
Communication Interfaces	LAN/CAN/RS485	
Compliance	IEC/EN 62619, IEC/EN 61000, UN38.3, 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

50kW



Inverter Features

- 1 . 4 Integrated MPPTs with string current capacity of up to 20A
- 2 . Maximum charge/discharge current of up to 70A+70A on two independently controlled battery ports
- 3 . Supports peak shaving control in both "self-use" and "generator" mode
- 4 . Backup port supports 1.6 times overload for short durations
- 5 . Generator connectivity with multiple input methods and automatic generator On/Of control
- 6 . Allows parallel operation of up to 6 units for both on-grid and of-grid applications
- 7 . Support to work as grid-tied inverter without battery connection during on-grid
- 8 . Compatible with a wide voltage range to accommodate various batteries

Inverter Technical Parameters Part 1

Model		S6-EH3P50K-H
Input DC (PV side)		
Recommended Max PV Array Size		96 kW
Max. Usable PV Input Power		100 kW
Max. Input Voltage		1000V
Rated Voltage		600 V
Start-up Voltage		180 V
MPPT Voltage Range		150-850 V
Max. Input Current		4*40 A
Max. Short Circuit Current		4*60 A
MPPT Number/Max. Input Strings Number		4*8
Battery		
Battery Type		Li-ion
Battery Voltage Range		150-800 V
Max. Charge / Discharge Power		55 kW
Max. Charge / Discharge Current		70 A*2 ⁽¹⁾
No. Of Battery Inputs		2
Communication		CAN/RS485
Output AC (Grid side)		
Rated Output Power		50 kW
Max. Apparent Output Power		50 kVA
Rated Grid Voltage		3/N/PE, 220 V / 380 V ; 3/N/PE, 230 V / 400 V
Rated Grid Frequency		50 Hz / 60 Hz
Rated Grid Output Current		76 A / 72.2 A
Max. Output Current		76 A / 72.2 A
Power Factor		>0.99 (0.8 leading - 0.8 lagging)
THDi		< 3%
Input AC (Grid side)		
Max. AC Passthrough Current		152 A / 144.4 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
Input Generator		
Max. Input Power		50 kW
Rated Input Current		76A / 72.2A
Rated Input Voltage		3/N/PE, 220 V / 380 V ; 3/N/PE, 230 V / 400 V
Rated Input Frequency		50 Hz / 60 Hz
Output AC (Back-up)		
Rated Output Power		50 kW
Max. Apparent Output Power		1.6 times of rated power, 2 s
Back-up Switch Time		< 10 ms
Rated Output Voltage		3/N/PE, 220 V / 380 V ; 3/N/PE, 230 V / 400 V
Rated Frequency		50 Hz / 60 Hz
Rated Output Current		76 A / 72.2 A
THDv (@Linear Load)		< 2%

Inverter Technical Parameters Part 2

Model		S6-EH3P50K-H
Efficiency		
Max. Efficiency		97.8%
Eu Efficiency		97.4%
Bat Charged By Pv Max. Efficiency		98.5%
Bat Charged/Discharged To Ac Max. Efficiency		97.5%
Protection		
Anti-Islanding Protection		Yes
Output Over Current Protection		Yes
Short Circuit Protection		Yes
Integrated Dc Switch		Optional
Dc Reverse-Polarity Protection		Yes
Surge Protection		DC Type II / AC Type II
Integrated AfcI (Dc Arc-Fault Circuit Protection)		Yes ⁽²⁾
General Data		
Dimensions (W*H*D)		530*880*290 mm
Weight		73 kg
Topology		Non-isolated
Self-Consumption (Night)		<25 W
Operating Ambient Temperature Range		-25°C~ +60°C
Relative Humidity		0-95%
Ingress Protection		IP66
Cooling Concept		Intelligent redundant fan-cooling
Max. Operation Altitude		4,000 m
Grid Connection Standard	VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006 VDE 0126 / UTE C 15 / VFR:2019, RD 1699 / RD 244 / UNE 206006/UNE 206007-1, CEI 0-21, C10/11 NRS 097-2-1, TOR, EIFS 2018.2, IEC 62116, IEC 61727, IEC 60068, IEC 61683, EN	
Safety/Emc Standard	IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3	
Features		
Pv Connection		MC4 Quick connection plug
Battery Connection		Terminal connector
Ac Connection		Terminal Block
Display		LED + Bluetooth + APP
Communication		96.6%

(1) Supporting parallel 140A input. (2) Activation required.

