

YOUR SAFE ENERGY

LITHIUMVALLEY

SCA208L50P-06W

>>Nominal Energy: 208.9kWh

>>Nominal Voltage: 665.6V



A+ Grade Lithium
Iron Phosphate Cells



15-year Design Lifespan

Liquid-cooled battery



Product Advantages

Safety Technology

- A+ grade lithium iron phosphate
- Battery management system with multi-level protection
- Module-level endothermic decomposition and cooling fire extinguishing
- EMS monitors the battery in real-time and provides early warning

Energy Management System

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

Easy to Install and Use

- Applications: Residential, commercial, industrial, off-grid, grid-tied, and self-consumption. Compatible with most three-phase inverters on the market
- Compatible with most high-voltage inverters or PCS available on the market

Flexible and Expandable

- The battery uses a modular design
- Supports parallel connection of multiple battery racks

Technical Parameter

Model		SCA208L50P-06W
Battery data		
Nominal energy		208kWh
Nominal voltage		665.6V
Battery chemistry		Lithium Iron Phosphate(LiFePO4)
Cycle life		≥6000 cycles(@25°C, 0.5C/0.5C)
Cell specification		3.2V 314Ah
Battery module capacity		52.24kWh
String configuration		1P208S
Number of strings		1
Operating Voltage		582.4~759.2V
Input DC (PV data)		
Max. usable PV input power		100kW
Max. input voltage		1000V
Start-up voltage		180V
MPPT voltage range		150~850V
Max. input current		4*40A
MPPT number/Max. input strings number		4*8
Output AC (Grid data)		
Rated output power		50kW
Rated grid voltage		3/N/PE, 220V/380V; 3/N/PE, 230V/400V
Rated grid frequency		50Hz/60Hz
Rated grid output current		76A/72.2A
Power factor		>0.99 (0.8 leading - 0.8 lagging)
THDi		<3%
Output AC (Back-up)		
Rated output power		50kW
Back-up switch time		<10ms
Rated output voltage		3/N/PE, 220V/380V; 3/N/PE, 230V/400V
Rated frequency		50Hz/60Hz
Rated output current		76A/72.2A
THDv (@linear load)		<2%
Efficiency		
Maximum round-trip efficiency		89%
General		
Dimensions (W*H*D)		1300mm*1890mm*1400mm
Weight		2350kg
Operating ambient temperature range		-25 ~ 55°C
Relative humidity		0~95%
IP rating		IP54
Fire protection		Aerosol
Cooling method		Liquid Cooling
Max. operation altitude		3000m
Grid connection standard		G98 or G99, VDE-AR-N 4105/VDE V 0124, EN 50549-1, 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 50530, MEA, PEA
Safety/EMC standard		IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-3, IEC62619
Communication		CAN, RS485, Ethernet, Optional: Wi-Fi, Cellular, LAN

