LITHIUMVALLEY

YOUR SAFE ENERGY

Version:V1.0

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

SC208L100-24M **208kWh-100kW**
SC261L125-24M **261kWh-125kW**

- Active Balancing BMS Technology
- PCS uses SiC for higher efficiency
- 12 Units In Parallel Connection

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

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

Energy Management System

- Peak shaving
- Demand mitigation
- Self-consumption
- Price arbitrage

System Technical Parameters

Model	SC208L100-24M	SC261L125-24M
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	728V~949V
Max. Charging Power	0.5P	
Max. Discharging Power	0.5P	
Safety		
Fire Extinguishing System	Aerosol fire extinguishing	
PCS Data		
Rated Power	100kW	125kW
Please refer to the PCS section for more details.		
General		
Dimension(WxDxH)	1050 x 1430 x 2280mm	
Weight	Approximately 2170 kg	Approximately 2520 kg
IP Rating	IP54	
Cooling Method	Liquid cooling	
Operating Temperature	-20°C to +50°C	
Storage Temperature	-20°C to +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.

INPPCS-1xx/0.4-W-14-A2-OS



PCS Features

- It supports a wider DC voltage range, from 600 to 1,000V, and adapt to different battery system configurations;
- Compared with the traditional IGBT system, the SiC componenthas higher efficiency and lower self-loss, itcanconducive to improving project profitability for industrial and commercial users;
- Technical features: three-phase four-leg, hardware architecture to maintain IN-POWER's characteristics;
- High efficiency,up to 99%;
- Multi parallel connection capability with off-grid mode;
- The AC side is equipped with leakage current protection, and the DC side has dual contactor + fuse protection. At the same time, theinsulation monitoringis used for the system;
- High power density,small product dimension,conducive to installation in customer's cabinet;
- Built-inEMI,no external filters required;

PCS Technical Parameters Part 1

Model	INPPCS-100/0.4-W-14-A2-OS	INPPCS-125/0.4-W-14-A2-OS
DC Side		
Max. DC voltage [Vd.c.]	1000	
Min. DC voltage [Vd.c.]	600	
Full load DC voltage range [Vd.c.]	630-950	
Max. DC current [Ad.c.]	174.6	218
Rated DC power [kW]	100	125
Max. DC power [kW]	110	137.5
Overvoltage Category(OVC)	II	
Ratedconditional short-circuit current [Ad.c.]	3.3k	

PCS Technical Parameters Part 2

Model	INPPCS-100/0.4-W-14-A2-OS	INPPCS-125/0.4-W-14-A2-OS
AC Side(Grid)		
AC rated Input /Output active Power PE [kW]	100	125
AC rated Input /Output apparent Power PE [kVA]	100	125
Max. AC Input/Output current [Aa.c.]	158.7	198
Nominal AC voltage Ur [Va.c.]	3L/N/PE, 400 /230	
AC voltage tolerance	-15%-+15%	
Nominal frequency/Frequency FNETZ [Hz]	50 /60	
Harmonic (THDi)	≤3% (at nominal Power), Linear load	
Power factor	-0.99-+0.99, At nominal Power	
Adjustable reactive Power range	-100%–100%	
Overvoltage Category(OVC)	III	
Ratedconditional short-circuit current [Aa.c.]	10k	
AC Side(Off-Grid)		
Nominal AC voltage Ur [Va.c.]	3L/N/PE, 400 /230	
AC voltage tolerance[Va.c.]	400 ±3%	
AC rated Input /Output apparent Power PE [kVA]	100	125
Max. AC Input/Output current [Aa.c.]	158.7	198
Harmonic THDu	≤3%, Linear load	
DC voltage component	<0.5% , Linear load	
Unbalance load capacity	100%	
Nominal frequency/Frequency FNETZ [Hz]	50 /60	
System parameters		
Max. efficiency	>99%	
Communication	RS485, CAN, Ethernet	
Enclosure Dimensions (W * H * D)	520mm x 240mm x 680mm	
Weight(kg)	70	
Degree of protection	IP20	
Operating ambient temperature [°C]	-30-60 (≥50°Cderating)	
Allowable relative humidity	RH ≤95%	
Cooling method	Forced air cooling	
Max. operating altitude(m)	4,000 (>2,000derating)	
Pollution degree	2	
Firmware version	DSP: 1197 ARM: 1852	

Factory Address: No. 31, Shengye Road, Huangjiang Town, Dongguan
info@lithiumvalley.com sales@lithiumvalley.com
www.lithiumvalley.com

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