

SC261L100-02M 261kWh-100kW



A+ Grade Lithium  
Iron Phosphate Cells



15-year Design Lifespan

Version:V1.0

## 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

#### 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

# System Technical Parameters

Model		SC261L100-02M
Battery Data		
Nominal Energy		261kWh
Nominal Voltage		832V
Battery Model		SC52T05-314
Battery Chemistry		Lithium Iron Phosphate(LiFePO4)
Cycle Life		≥8,000 cycles(@25°C, 0.5P/0.5P)
Cell Specification		3.2V 314Ah
Battery Pack Energy		52.2kWh
String Configuration		1P260S
Number of Racks		1
Operating Voltage		728~949V
Rated Charging Power		0.5P
Rated Discharging Power		0.5P
Safety		
Fire Suppression System		Aerosol fire extinguishing
PCS Data		
Rated Power		100kW(Derating of the 125kW PCS)
Please refer to the PCS section for more details.		
General		
Dimensions(W x D x H)		1300 x 1550 x2090mm
Weight		Approximately 2700 kg
Operating Temperature		-20°C - +50°C
Storage Temperature		-20°C - +45°C
Relative Humidity		15%~90%(Non-condensing)
IP Rating		IP54
Cooling Method		Liquid cooling(Battery)
Operating Altitude		≤3000m
Communication		CAN, RS485, Dry contact
Compliance		IEC/EN 61000, IEC 62619, 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.

# Power Conversion System

## ● Operation and maintenance

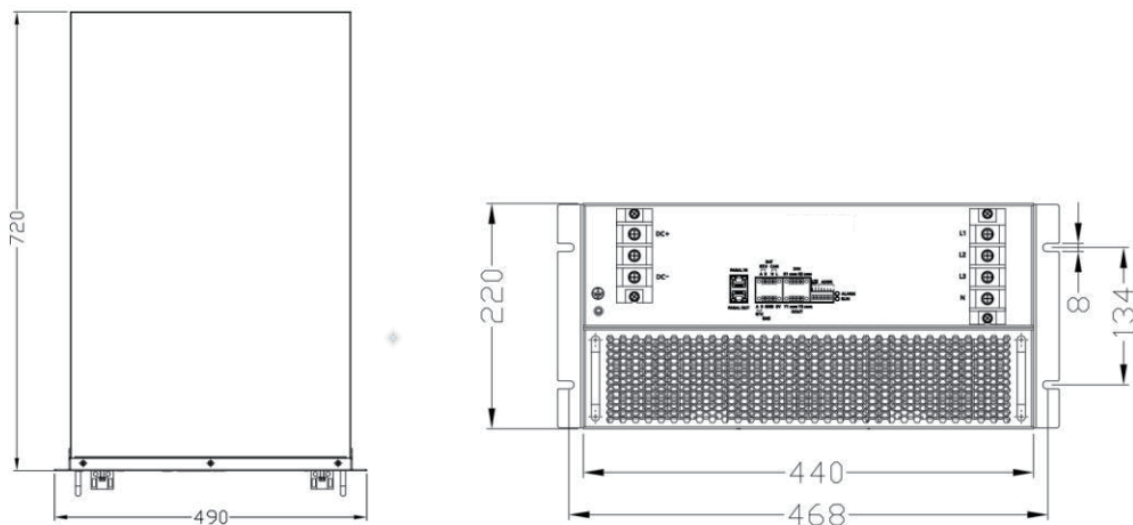
### High efficiency

- Standby power  $\leq 15W$ , No-load operation loss  $\leq 130W$
- Charge discharge conversion time  $\leq 20ms$
- Maximum conversion efficiency 98.7%

### Function

- Compatible 3P4L and 3P3L application Scenario.
- Supports mainstream BMS protocol
- Supports functions such as high-low traversal, island protection, and black start.
- Single phase 100% load capacity
- Supports 20 parallel operations
- Support hybrid operation of oil engine, with oil engine as the main mode, PCS as the main mode, and hybrid mode.
- String based application, faults do not affect the operation of other branches
- Comprehensive fault protection function and fault recording analysis

### Product size



# PCS Technical Parameters

Model	LOL100AC-02M
<b>DC side</b>	
Max Voltage	950 V
Min Voltage	600 V
Rated Voltage Range	On grid (600V-950V) / Offgrid (650V-950V)
Max Input Current	185 A
<b>AC side (On grid)</b>	
Output Power	110 kVA @ 40°C ; 100 kVA @ 45°C
Max Output Current	152
Rate Power	400 V / 230V
Rate Voltage Range	-20%~15%
Frequency Range	50Hz / 47Hz~52Hz ; 60Hz / 57Hz~62Hz
Harmonic Wave	< 3 % (Greater than 30% load)
Power Factor	-100%~100% (See below pic)
<b>AC Side (Off Grid)</b>	
Rate Voltage	400 V / 230V
Output Voltage Harmonic Wave	< 1.5 % (Resistive load)
Imbalance	100%
Frequency Range	50/60Hz
Overload	1.25/10s , 1.5/0.1s
<b>System Parameter</b>	
Communication Port	EMS: CAN/RS485, Battery: CAN/RS485
DIDO	2-circuit
Max Efficiency	98.78%
Installation Method	Subrack
Loss	Standby <15W, no-load power <130W
Weight (kg)	48
Protection	IP54
Temperature Range	-30~60°C
Humidity Range	0-100%
Cooling Method	Intelligent forced air cooling
Altitude (m)	2000 (3000/4000 meters derating separately 90%/80%)
Certificate	EN50549 , EN 62477, EN IEC 61000, CQC
Power Grid Support	LVRT, HVRT, SVG

