

# C&I Energy Storage System



## Highlights

- Plug and play design
- Turnkey solution with PCS and batteries
- Flexible Deployment According to The Site Layout

## System Features



Rack level Lockable  
Disconnect



Short Circuit Protection



Fire Detection and  
Suppression



Water-based Suppression  
System (Optional)



Intrusion Detect System



System Controller

## SYL Battery Co.,Ltd

SYL Battery(SYL), a subsidiary of Risen Group, was established in 2005 at Ningbo Which is located on the east coast of China and is Known as the "Natural Oxygen Bar". SYL is a high-tech company with the capability of R&D, integration, manufacturing, sales, and service. SYL has focused on lithium batteries for 17 years, with an annual production capacity of 8GWh+, and has more than 100 senior battery technology R&D and system integration engineering employees on board. SYL is devoted to being one of the world's leading suppliers for "Energy Storage+" smart energy systems.

The 1500V high-voltage energy storage battery system developed by SYL independently is the first 280Ah battery system that passed the UL 9540A test in China. with its advantages of energy storage battery technology, SYL is capable of Offering BESS solutions for Renewable Energy Smoothing, Peak Shaving, Frequency Regulation, Microgrid, Backup Power, Black-start, and other applications. with a full spectrum of product line covers battery systems, residential, C&I, and utility energy storage system, SYL has delivered BESS to China, the United States, United Kingdom, Germany, Czech Republic, Canada, Australia, Thailand, Japan, Philippines, and other countries around the world.



# Technical Specification

## Item

## Specification

System Model	SU573U125HV	SU860U250HV	SU1147U500HV
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## System Information

Nominal AC Power	125kW	250kW	500kW
Nameplate Capacity	573.44kWh	860.16kWh	1146.88kWh

## Battery Information

Battery Chemistry	LFP		
Capacity	280Ah		
Configuration	320S2P	320S3P	320S4P
Nominal Voltage	1024V		
Voltage Range	896~1,152V		

## Inverter Information

Max. AC Power	125kW	250kW	500kW
Nominal Grid/Islanding Voltage	480V		
Grid Voltage Range	422~528V		
Power Factor	-1 to 1, continuously adjustable		
Nominal Grid Frequency	60Hz		
Isolation	Transformerless		

## Working Conditions

Degree of Protection	NEMA 3R / IP55		
Noise Emission	≤70dB @1m		
Operating Temperature Range	-22°F ~ 122°F / -30°C ~ 50°C		
Relative Humidity	0~95% (No condensing)		
Max. Working Altitude	9,800ft/3,000m		

## System Information

Dimensions (W×H×D)	4,770×2,500×1,673mm	6,955×2,500×1,673mm	9,740×2,500×1,673mm
Weight	8,600kg	12,400kg	16,600kg
Cooling Method of Battery Cabonet	HVAC		
Cooling Method of PCS	Forced air cooling with replaceable fan module		
Fire Suppression System	Aerosol		
Communication Protocol	Modbus TCP/IP		
Certificate	UL1741, UL1741 SB, UL1741 CRD, IEEE1547, UL1973, UL9540A, UL9540		