

# 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	SU242E100HV	SU484E200HV	SU968E400HV
--------------	-------------	-------------	-------------

## System Information

Nominal AC Power	100kW	200kW	400kW
Nameplate Capacity	241.92kWh	483.84kWh	967.68kWh

## Battery Information

Battery Chemistry	LFP		
Capacity	280Ah		
Configuration	270S1P	270S2P	270S4P
Nominal Voltage	864V		
Voltage Range	756~972V		

## Inverter Information

Max. AC Power	100kW	200kW	400kW
Nominal Grid/Islanding Voltage	400V		
Grid Voltage Range	310~450V		
Power Factor	-1 to 1, continuously adjustable		
Nominal Grid Frequency	50Hz		
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)	3,250×2,500×1,673mm	6,490×2,500×1,673mm	9,740×2,500×1,673mm
Weight	3,800kg	7,400kg	14,300kg
Cooling Method of Battery Cabinet	HVAC		
Cooling Method of PCS	Forced air cooling with replaceable fan module		
Fire Suppression System	Aerosol		
Communication Protocol	Modbus TCP/IP		
Certificate	IEC62619, IEC62477, IEC61000, IEC60730, UL1973, UL9540A, AS/NZS4777.2, VDE-AR-N4105		