

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 16 years, with an annual production capacity of 5GWh+, 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 | SU251U125LM | SU502U125LM | SU753U125LM | SU1004U125LM |
|--------------|-------------|-------------|-------------|--------------|

System Information

| | | | | |
|--------------------|--------|--------|--------|---------|
| Nominal AC Power | 125kW | | | |
| Nameplate Capacity | 251kWh | 502kWh | 753kWh | 1004kWh |

Battery Information

| | | | | |
|-------------------|--------------|--------|--------|--------|
| Battery Chemistry | LFP | | | |
| Capacity | 280Ah | | | |
| Configuration | 280S1P | 280S2P | 280S3P | 280S4P |
| Nominal Voltage | 896V | | | |
| Voltage Range | 784 ~ 1,000V | | | |

Inverter Information

| | |
|--------------------------------|----------------------------------|
| Max. AC Power | 125kW |
| Nominal Grid/Islanding Voltage | 480V |
| Grid Voltage Range | 422.4~528V |
| Power Factor | -1 to 1, continuously adjustable |
| Nominal Grid Frequency | 60Hz |
| Isolation | Transformerless |

Working Conditions

| | |
|-----------------------------|------------------------------|
| Degree of Protection | NEMA 3R / IP54 |
| Noise Emission | ≤72dB @1m |
| Operating Temperature Range | -22°F ~ 113°F / -30°C ~ 45°C |
| Relative Humidity | 0~95% (No condensing) |
| Max. Working Altitude | 6,500' / 2,000m |

System Information

| | | | | |
|-----------------------------------|--|-------------------|-------------------|-------------------|
| Dimensions (W×H×D) | 2,539×2,328×1,392 | 4,015×2,328×1,392 | 5,491×2,328×1,392 | 6,967×2,328×1,392 |
| Weight | 4,410kg | 7,610kg | 10,810kg | 14,010kg |
| Cooling Method of Battery Chamber | HVAC | | | |
| Cooling Method of PCS Chamber | Forced air cooling with replaceable fan module | | | |
| Fire Suppression System | Aerosol | | | |
| Communication Protocol | Modbus TCP/IP | | | |
| Certificate | UL1741, UL1741SA, IEEE1547, UL9540(pending), UL1973, UL9540A(Pending) | | | |

Technical Specification

Item

Specification

| | | | |
|--------------|-------------|-------------|--------------|
| System Model | SU502U250LM | SU753U250LM | SU1004U250LM |
|--------------|-------------|-------------|--------------|

System Information

| | | | |
|--------------------|--------|--------|---------|
| Nominal AC Power | 250kW | | |
| Nameplate Capacity | 502kWh | 753kWh | 1004kWh |

Battery Information

| | | | |
|-------------------|--------------|--------|--------|
| Battery Chemistry | LFP | | |
| Capacity | 280Ah | | |
| Configuration | 280S2P | 280S3P | 280S4P |
| Nominal Voltage | 896V | | |
| Voltage Range | 784 ~ 1,000V | | |

Inverter Information

| | | | |
|--------------------------------|----------------------------------|--|--|
| Max. AC Power | 250kW | | |
| Nominal Grid/Islanding Voltage | 480V | | |
| Grid Voltage Range | 422.4~528V | | |
| Power Factor | -1 to 1, continuously adjustable | | |
| Nominal Grid Frequency | 60Hz | | |
| Isolation | Transformerless | | |

Working Conditions

| | | | |
|-----------------------------|------------------------------|--|--|
| Degree of Protection | NEMA 3R / IP54 | | |
| Noise Emission | ≤72dB @1m | | |
| Operating Temperature Range | -22°F ~ 113°F / -30°C ~ 45°C | | |
| Relative Humidity | 0~95% (No condensing) | | |
| Max. Working Altitude | 6,500' / 2,000m | | |

System Information

| | | | |
|-----------------------------------|--|-------------------|-------------------|
| Dimensions (W×H×D) | 4,078×2,328×1,392 | 5,554×2,328×1,392 | 7,030×2,328×1,392 |
| Weight | 7,920kg | 11,120kg | 14,320kg |
| Cooling Method of Battery Chamber | HVAC | | |
| Cooling Method of PCS Chamber | Forced air cooling with replaceable fan module | | |
| Fire Suppression System | Aerosol | | |
| Communication Protocol | Modbus TCP/IP | | |
| Certificate | UL1741, UL1741SA, IEEE1547, UL9540(pending), UL1973, UL9540A(Pending) | | |

Technical Specification

Item

Specification

| | | | |
|--------------|-------------|--------------|--------------|
| System Model | SU753U375LM | SU1004U375LM | SU1004U500LM |
|--------------|-------------|--------------|--------------|

System Information

| | | | |
|--------------------|--------|---------|---------|
| Nominal AC Power | 375kW | 375kW | 500kW |
| Nameplate Capacity | 753kWh | 1004kWh | 1004kWh |

Battery Information

| | | | |
|-------------------|--------------|--------|--------|
| Battery Chemistry | LFP | | |
| Capacity | 280Ah | | |
| Configuration | 280S3P | 280S4P | 280S4P |
| Nominal Voltage | 896V | | |
| Voltage Range | 784 ~ 1,000V | | |

Inverter Information

| | | | |
|--------------------------------|----------------------------------|-------|-------|
| Max. AC Power | 375kW | 375kW | 500kW |
| Nominal Grid/Islanding Voltage | 480V | | |
| Grid Voltage Range | 422.4~528V | | |
| Power Factor | -1 to 1, continuously adjustable | | |
| Nominal Grid Frequency | 60Hz | | |
| Isolation | Transformerless | | |

Working Conditions

| | | | |
|-----------------------------|------------------------------|--|--|
| Degree of Protection | NEMA 3R / IP54 | | |
| Noise Emission | ≤72dB @1m | | |
| Operating Temperature Range | -22°F ~ 113°F / -30°C ~ 45°C | | |
| Relative Humidity | 0~95% (No condensing) | | |
| Max. Working Altitude | 6,500' / 2,000m | | |

System Information

| | | | |
|-----------------------------------|--|-------------------|-------------------|
| Dimensions (W×H×D) | 5,617×2,328×1,392 | 7,093×2,328×1,392 | 7,156×2,328×1,392 |
| Weight | 11,430kg | 14,630kg | 14,940kg |
| Cooling Method of Battery Chamber | HVAC | | |
| Cooling Method of PCS Chamber | Forced air cooling with replaceable fan module | | |
| Fire Suppression System | Aerosol | | |
| Communication Protocol | Modbus TCP/IP | | |
| Certificate | UL1741, UL1741SA, IEEE1547, UL9540(pending), UL1973, UL9540A(Pending) | | |