

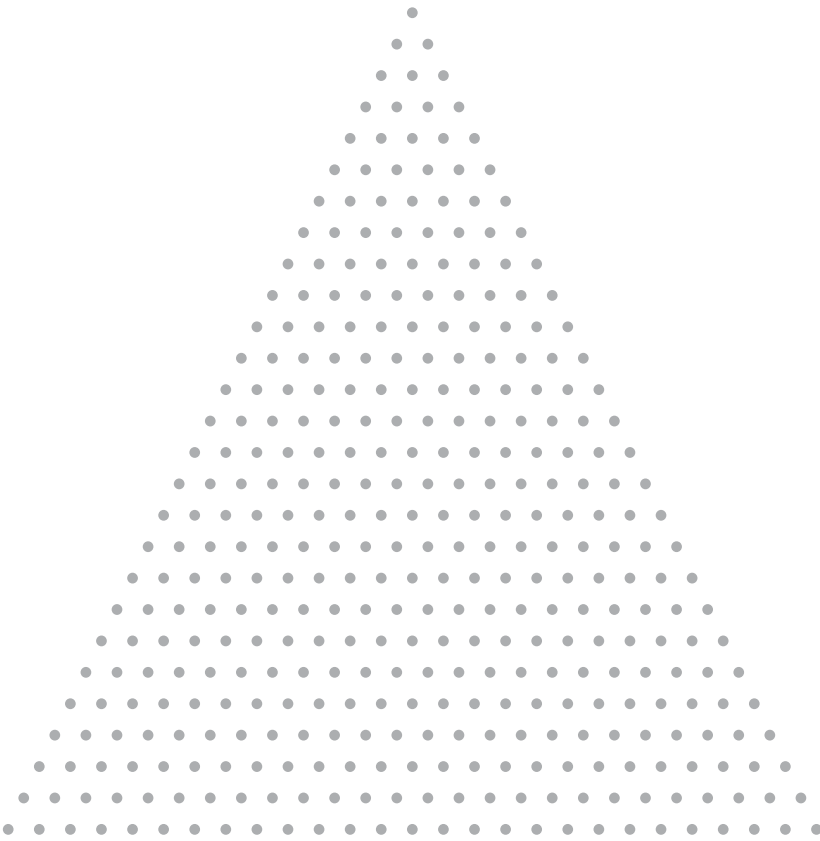


WOLONG  **ESS**

**WOLONG ENERGY
STORAGE SOLUTIONS**

WOLONG NEW ENERGY GROUP CO., LTD
ZHEJIANG WOLONG ENERGY STORAGE SYSTEM CO., LTD

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WOLONG ESS

A world-class brand; a century of enterprise.

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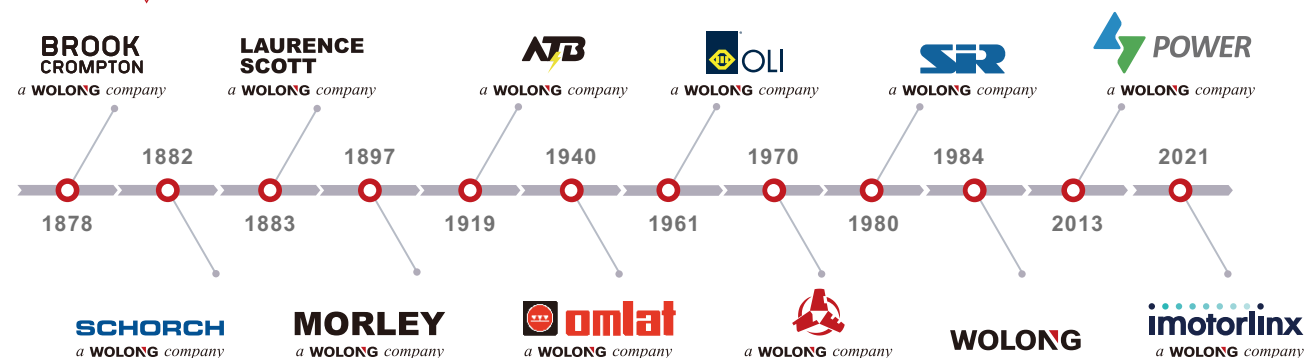
Vision



WOLONG GROUP Profile

Founded in 1984 at the base of the Wolong mountain in Zhejiang Province, China, Wolong has grown from an electric motor manufacturer to a global leader in electric and new energy technologies. The Wolong Group is firmly aligned with environmentally respectful trends and carbon neutral goals as it strives to become a leading global enterprise.

Brand history



Wolong Energy Storage Milestones

September 2025

Signed a 1GWh framework agreement with a European energy company, marking a new era for the overseas market.

March 2025

Ranked Top 10 in China for new energy storage system shipments.

February 2025

The Baotou, Inner Mongolia factory commenced operations with a capacity of 2 Gwh.

September 2024

The Mexico project (1.5MW/3.1 MWh) was delivered in batches, marking the transition of overseas delivery capability from pilot to scale.

August 2024

Won the Inner Mongolia Baotou project (100MW/400MWh), solidifying position in the grid-side market.

August 2024

The Tongliao, Inner Mongolia project (276 MW / 276 Mwh) became operational, industry's first large-scale application of 1C liquid-cooled 280 Ah cells.

December 2023

Multiple 100MW-class projects went operational: Hubei Tianmen (50MW/100MWh), Guangxi Baise (100MW/200MWh).

September 2023

Shaoxing New Energy Base commenced operations with a capacity of 10GWh.

March 2023

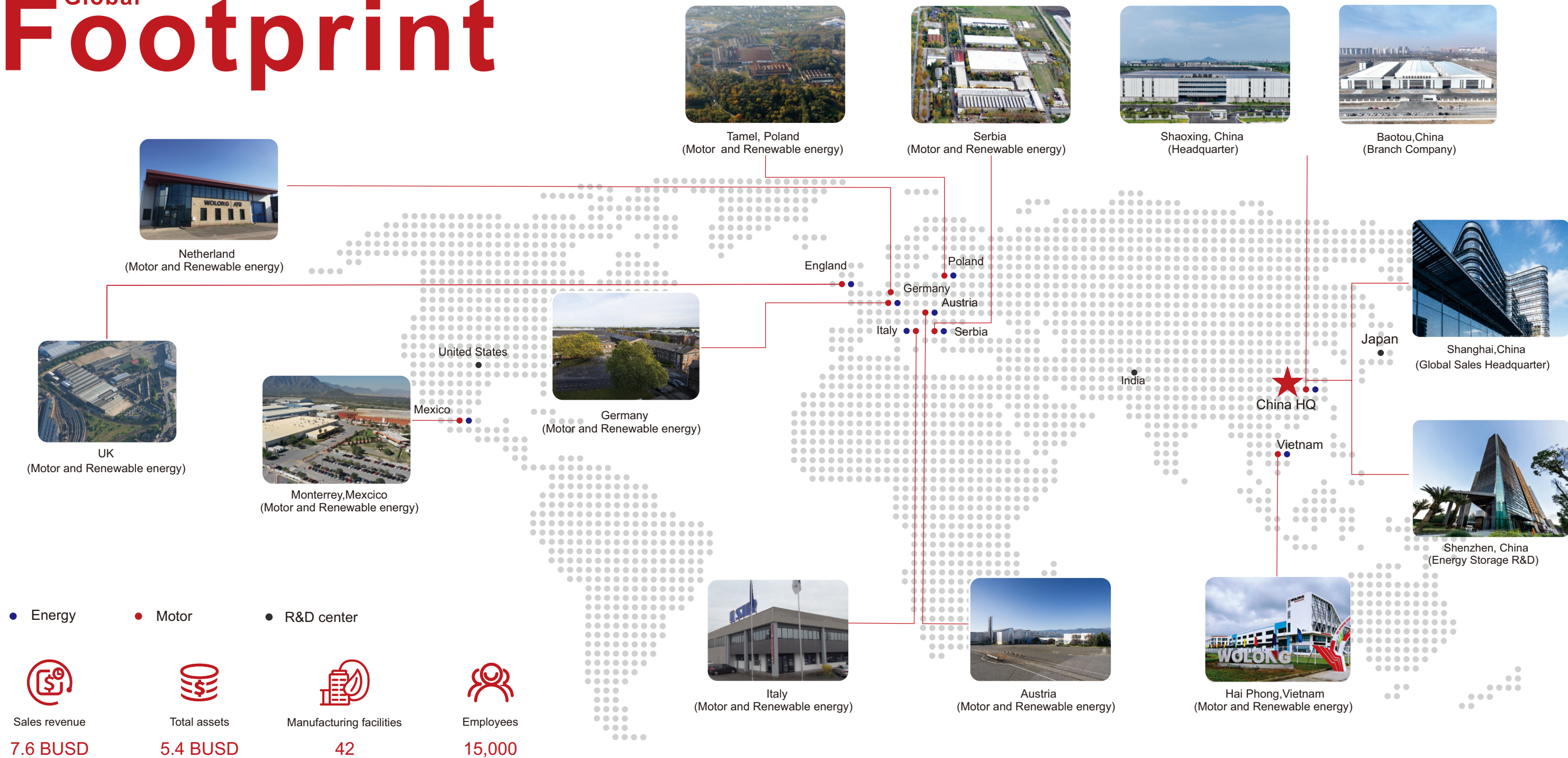
Shaoxing New Energy Base commenced operations with a capacity of 10GWh.

October 2022

WOLONG ESS was established with a registered capital of 100 million RMB.



Global Footprint



3 Operation Centers and 42 Manufacturing Bases Globally

- APAC[China,Vietnam]
- Europe [UK, Germany, Austria, Italy, Poland, Serbia]
- Americas [Mexico]



Sales Network
Over 100 Countries

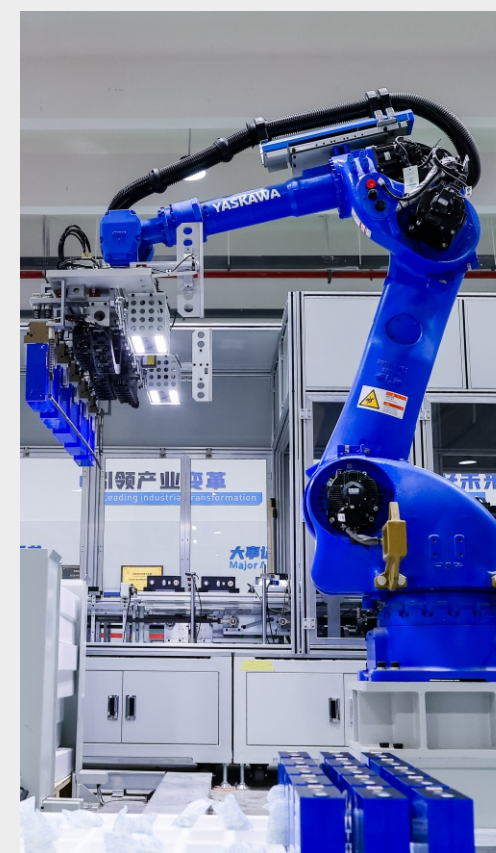


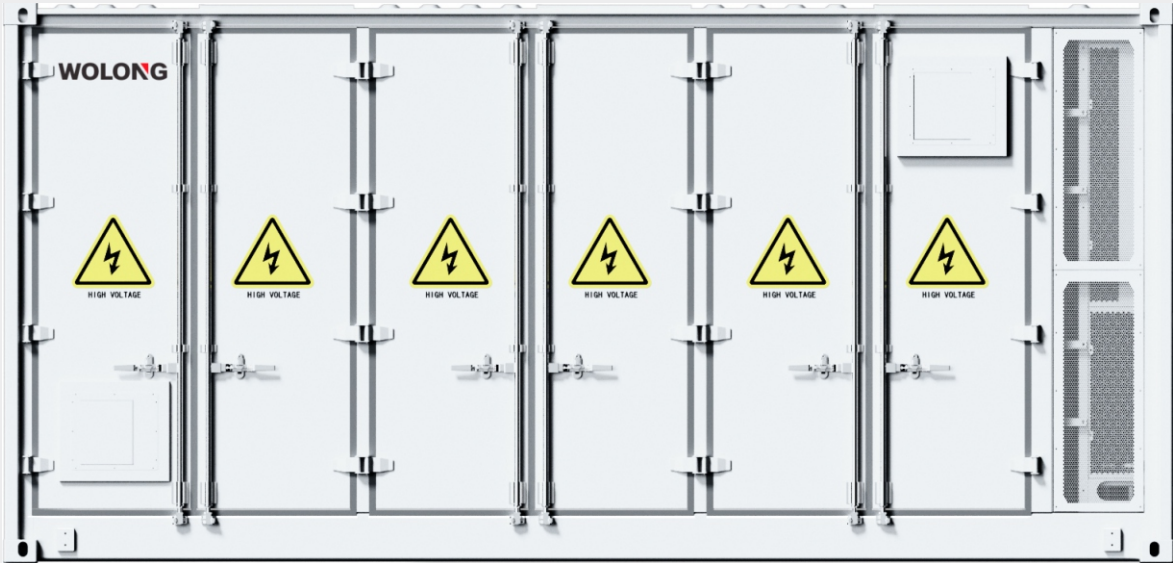
5 Research Centers: Americas,
Germany, India, Japan, China



Manufacturing Capacity

With two modern manufacturing bases in Shaoxing and Baotou, Wolong Energy Storage has established a robust production layout with an annual capacity of 12GWh. We are committed to strict compliance with global standards, holding key certifications including GB, UL, and CE, as well as recognized bankability ratings. By leveraging exceptional manufacturing processes and a stringent quality management system, we have gained extensive trust and recognition from customers worldwide.





WL-ESS-5015kWh-1500V



High Efficiency

- High energy density, high charge/discharge cycle efficiency
- 1500V DC high voltage system, high efficiency LFP battery
- Accurate control of battery cell temperature, high consistency



Safe and Reliable

- Intelligent management, active control, multi-level linked protection
- Active ventilation, fire and explosion protection design
- Intelligent fault diagnosis, SOC automatic correction, easy to maintain



High Adaptability

- IP54 Protection, wind resistant, snow resistant, and earthquake resistant design
- Can operate in harsh environments such as high altitude, near the sea, high and low temperatures, etc



High Integration

- Modular and standard design, plug-and-play, easy to transport and install
- Intelligent and quick response

System Model	WL-ESS-5015kWh-1500V
System Parameters	
Battery Cell Type	LFP/314Ah
Battery Configuration	12P416S
Battery Capacity at DC Side (BOL)	5,015 kWh
Maximum P-Rate	0.5P
Battery Rated Voltage	1,331.2 V
Voltage Range	1,164.8 ~ 1,497.6 V
Container Size (W × D × H)	6,058 × 2,438 × 2,896 mm
Container Weight	42,000kg
Container Colour	RAL 7035
IP Level	IP 54
Anti-Corrosion	Default: C4 Optional: C5
Operating Temperature Range	-25°C~50°C(>45°C de-rating)
Relative Humidity	5% ~ 95%
Highest Working Altitude	3,000 m
Temperature Control Method	Liquid Cooling
Fire Suppression System	Default: Aerosol, Smoke, and Temperature Detector, Ventilation System with Flammable Gas Detector, Dry Pipe Fire Sprinkler Optional: Deflagration Panel
Communication Interface	Ethernet
Communication Protocol	Modbus TCP, IEC 61850, IEC 104
Standard Compliances	IEC 62619, IEC 61000-6-2&4, IEC 62477-1 UL 9540A, UL 9540, UL 1973, NFPA 69, UN 38.3



WL-ESS-2507kWh-1500V



High Efficiency

- High energy density, high charge/discharge cycle efficiency
- 1500V DC high voltage system, high efficiency LFP battery
- Accurate control of battery cell temperature, high consistency



Safe and Reliable

- Intelligent management, active control, multi-level linked protection
- Active ventilation, fire and explosion protection design
- Intelligent fault diagnosis, SOC automatic correction, easy to maintain



High Adaptability

- IP54 Protection, wind resistant, snow resistant, and earthquake resistant design
- Can operate in harsh environments such as high altitude, near the sea, high and low temperatures, etc



High Integration

- Modular and standard design, plug-and-play, easy to transport and install
- Intelligent and quick response

System Model	WL-ESS-2507kWh-1500V
System Parameters	
Battery Cell Type	LFP/314Ah
Battery Configuration	6P416S
Battery Capacity at DC Side (BOL)	2,507 kWh
Maximum P-Rate	0.5P
Battery Rated Voltage	1,331.2 V
Voltage Range	1,164.8 ~ 1,497.6 V
Container Size (W × D × H)	3,420 × 2,438 × 2,896 mm
Container Weight	23,000kg
Container Colour	RAL 7035
IP Level	IP 54
Anti-Corrosion	Default: C4 Optional: C5
Operating Temperature Range	-25°C~50°C(>45°C de-rating)
Relative Humidity	5% ~ 95%
Highest Working Altitude	3,000 m
Temperature Control Method	Liquid Cooling
Fire Suppression System	Default: Aerosol, Smoke, and Temperature Detector, Ventilation System with Flammable Gas Detector, Dry Pipe Fire Sprinkler Optional: Deflagration Panel
Communication Interface	Ethernet
Communication Protocol	Modbus TCP, IEC 61850, IEC 104
Standard Compliances	IEC 62619, IEC 61000-6-2&4, IEC 62477-1 UL 9540A, UL 9540, UL 1973, NFPA 69, UN 38.3



WL-ESS-4244kWh-1500V



High Efficiency

- High energy density, high charge/discharge cycle efficiency
- 1500V DC high voltage system, high efficiency LFP battery
- Accurate control of battery cell temperature, high consistency



Safe and Reliable

- Intelligent management, active control, multi-level linked protection
- Active ventilation, fire and explosion protection design
- Intelligent fault diagnosis, SOC automatic correction, easy to maintain



High Adaptability

- IP54 Protection, wind resistant, snow resistant, and earthquake resistant design
- Can operate in harsh environments such as high altitude, near the sea, high and low temperatures, etc



High Integration

- Modular and standard design, plug-and-play, easy to transport and install
- Intelligent and quick response

System Model	WL-ESS-4244kWh-1500V
System Parameters	
Battery Cell Type	LFP/314Ah
Battery Configuration	11P384S
Battery Capacity at DC Side (BOL)	4,244 kWh
Maximum P-Rate	0.5P
Battery Rated Voltage	1,228.8 V
Voltage Range	1,075.2 ~ 1,382.4 V
Container Size (W × D × H)	6,058 × 2,438 × 2,896 mm
Container Weight	37,600kg
Container Colour	RAL 7035
IP Level	IP 54
Anti-Corrosion	Default: C4 Optional: C5
Operating Temperature Range	-25°C~50°C(>45°C de-rating)
Relative Humidity	5% ~ 95%
Highest Working Altitude	3,000 m
Temperature Control Method	Liquid Cooling
Fire Suppression System	Default: Aerosol, Smoke, and Temperature Detector, Ventilation System with Flammable Gas Detector, Dry Pipe Fire Sprinkler Optional: Deflagration Panel
Communication Interface	Ethernet
Communication Protocol	Modbus TCP, IEC 61850, IEC 104
Standard Compliances	IEC 62619, IEC 61000-6-2&4, IEC 62477-1 UL 9540A, UL 9540, UL 1973, NFPA 69, UN 38.3



WL-ESS-1152kW/3086kWh-400V



High Efficiency

- 1500Vdc with a wide voltage range, supporting 400 Vac transformerless grid connection.
- Rack-level management maximizes battery utilization, improving efficiency and lifespan.



Easy Transport & Installation

- Standard 20-ft high cube container and 30 tons weight, compatible with standard transport.
- Integrated AC/DC design reduces wiring and simplifies installation.



Safe and Reliable

- No parallel connection, no circulating current.
- Active ventilation and explosion relief panels enhance fire protection.



Simple Operation & Maintenance

- Modular design allows maintenance without full disassembly.
- Riack-level active balancing with online SOC calibration continuously optimizes battery performance.

System Model	WL-ESS-1280kW/2700kWh-400V	WL-ESS-1152kW/3086kWh-400V
DC Parameter		
Battery Cell Type	LFP/314Ah	LFP/314Ah
Battery Configuration	8P336S	8P384S
Battery Capacity at DC Side (BOL)	2,700kWh	3,086kWh
Maximum P-Rate	0.5P	
Battery Rated Voltage	1075.2V	1228.8V
Battery Voltage Range	940.8~1209.6V	1075.2~1382.4V
Battery Cooling Method	Liquid Cooling	
AC Parameters		
Rated Capacity	8x160kVA(DC Voltage> 1200V, Derating to 90%)	
PCS Cooling Method	Forced Air Cooling	
Rated Voltage	400V	
Voltage Range	-10%~15%	
AC Connection	3P+N	
THDi	<3% (at nominal power)	
Power Factor	-1~1	
Rated Frequency	50/60Hz	
PCS Standard Compliance	IEC62477-1, EN62109, IEC61000-6-2&4, EN50549-1&2, EN50549-10	
General Parameters		
Container Size (W×D×H)	6,058×2,438×2,896mm	
Container Weight	30,000kg	33,000kg
IP Level	IP 55 for Battery Room, IP66 for PCS, IP54 for Chiller	
Anti-Corrosion	Default: C4, Optional: C5	
Operating Temperature	-20℃~50℃(>45℃ de-rating)	
Relative Humidity	5%~95%	
Highest Working Altitude	3,000m	
Fire Protection System	Aerosol, Smoke and Temperature Detector, Ventilation System with Gas Detector, Deflagration Panel, Dry Pipe Fire Sprinkler	
Communication Interface	Ethernet	
Communication Protocol	ModbusTCP	
Standard Compliance	IEC 62619, IEC 61000-6-2&4, IEC 62477-1, UN 38.3 IEC 62933-5 2,UL9540A,EN50549	



WL-ESS-100kW/241kWh-0.4kV



Cost Savings

- Highly integrated, all-in-one design, easy to transport and maintain
- Fully pre-assembled, no battery module installation on site
- Support parallel connection of multiple devices, reduce footprint



Efficient thermal management

- systemCold and hot partition, low energy consumption, intelligent constant temperature



Safe and Reliable

- No battery parallel design
- Multi-level linked protection, cut off the circulation circuit
- Intelligent fire suppression system, more reliable emergency response



Intelligent Management

- Support remote and local control, on-grid/of fgrid mode
- Operating status and fault information upload, easy to maintain

System Model	WL-ESS-100kW/241kWh-0.4kV
Battery Parameters	
Battery Cell Type	LFP/314Ah
Battery Configuration	1P240S
Battery Capacity at DC Side (BOL)	241kWh
Maximum P-Rate / Nominal Discharge Duration	0.5P / 2 Hours
Battery Rated Voltage	768V
Battery Voltage Range	672V~864V
Battery Cooling Method	Liquid Cooling
AC Parameters	
Rated Power	100kW
Rated Voltage	400V±10%
Rated Frequency	50/60Hz
Power Factor	-1~1
Max.THD of Current	<3% (at nominal power)
PCS Standard Compliance	IEC 62477-1, IEC 61000-6-2&4, C10/11, PPDS Annex 4, TR 3.3.1, VDE-AR-N 4105, RENBLAD 342, PTPIREE, EIFS, PEA
General Parameters	
Topology	Transformerless
Size(W×H×D)	1,350×2,300×1,350mm
Weight	2,650kg
IP Level	IP 55 for Battery Room IP65 for PCS, IP54 for Chiller
Auxiliary Power Supply	Default: Internal Power Supply Optional: External with 220Vac
Anti-Corrosion	Default: C4, Optional: C5
Fire Protection System	Default: Aerosol, Smoke and Temperature Detector, Deflagration Panel Optional: Ventilation System with Gas Detector
Operating Temperature	-20°C~50°C(>45°C derating)
Max. Operating Altitude	3,000m
Communication Protocol	Modbus TCP
Communication Interface	Ethernet
Standard Compliance	IEC 62477-1, IEC 61000-6-2&4, IEC 62619, UN 38.3



WL-ESS-135kW/289kWh-0.48kV



Cost Savings

- Highly integrated, all-in-one design, easy to transport and maintain
- Fully pre-assembled, no battery module installation on site
- Support parallel connection of multiple devices, reduce footprint



Efficient thermal management

- systemCold and hot partition, low energy consumption, intelligent constant temperature



Safe and Reliable

- No battery parallel design
- Multi-level linked protection, cut off the circulation circuit
- Intelligent fire suppression system, more reliable emergency response



Intelligent Management

- Support remote and local control, on-grid/of fgrid mode
- Operating status and fault information upload, easy to maintain

System Model	WL-ESS-135kW/289kWh-0.48kV
Battery Parameters	
Battery Cell Type	LFP/314Ah
Battery Configuration	1P288S
Battery Capacity at DC Side (BOL)	289kWh
Maximum P-Rate / Nominal Discharge Duration	0.5P / 2 Hours
Battery Rated Voltage	921V
Battery Voltage Range	806V~1,000V
Battery Cooling Method	Liquid Cooling
AC Parameters	
Rated Power	135kW
Rated Voltage	480V±10%
Rated Frequency	60Hz
Power Factor	-1~1
Max. THD of Current	<3% (at nominal power)
PCS Standard Compliance	UL 1741, CSA 22.2 No.107.1-01, UL 1741-SB, IEEE 1547
General Parameters	
Topology	Transformerless
Size(W×H×D)	1,350×2,400×1,350mm
Weight	3,000kg
IP Level	IP 55 for Battery Room IP65 for PCS, IP54 for Chiller
Auxiliary Power Supply	Default: Internal Power Supply Optional: External with 480Vac
Anti-Corrosion	Default: C4, Optional: C5
Fire Protection System	Default: Aerosol, Smoke and Temperature Detector, Deflagration Panel Optional: Ventilation System with Gas Detector
Operating Temperature	-20°C~50°C(>45°C derating)
Max. Operating Altitude	3,000m
Communication Protocol	Modbus TCP
Communication Interface	Ethernet
Standard Compliance	UL 1973, UL 9540A, UL 9540:2023, FCC part15B, UN 38.3 NFPA68,NFPA69

Battery Packs and Racks



System Model	1P48S
Rated Capacity (BOL)	48 kWh
Rated Voltage	153.6 V
Current of Standard Charge/Discharge	157 A
Power of Standard Charge/Discharge	26 kW
Cooling Method	Liquid cooling
Charging Operating Temperature (Ambient)	0°C ~ 50°C
Discharging Operating Temperature (Ambient)	-20°C ~ 50°C(32 ~ 122°F)
IP Degree	IP66
Dimension (W x H x D)	810 x 246 x 1085 mm(3.2 x 8.7 x 3.7 ft)
Weight	310 kg+10 kg

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System Model	1P384S
Rated Capacity (BOL)	385.8 kWh
Rated Voltage	1228.8 V
Current of Standard Charge/Discharge	157 A
Power of Standard Charge/Discharge	193 kW
Cooling Method	Liquid cooling
Charging Operating Temperature (Ambient)	0°C ~ 50°C
Discharging Operating Temperature (Ambient)	-20°C ~ 50°C(32 ~ 122°F)
IP Degree	IP66
Dimension (W x H x D)	977 x 2665 x 1115 mm(3.21 x 8.74 x 3.66 ft)
Weight	2700 kg

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| Application

Utility-Scale Case

100 MW / 200 MWh



108MW/316MWh



100 MW / 400 MWh



81 MW / 324 MWh



200 MW / 1200 MWh



50 MW / 100 MWh



20 MW / 40 MWh



125 MW / 250 MWh



276 MW / 276 MWh



Application

C&I Case

33.3 MW / 100 MWh



50 MW / 100 MWh



0.22 MW / 0.47 MWh



1.5 MW / 3.102 MWh



1.3 MW / 2.795 MWh



110 kW / 235 kWh



0.54 MW / 1.11 MWh



0.54 MW / 1.11 MWh



110 kW / 235 kWh



17 MW / 84 MWh



0.22 MW / 0.47 MWh



0.22 MW / 0.47 MWh



Shape The Future



Integrity | Harmony | Creativity

We're actively venturing into new energy sectors,
with a focus on advanced energy storage technologies.
paving the way for novel power systems.

Wolong is committed to becoming a leading provider
of safe and efficient energy storage solutions.



WOLONG ESS