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AnengJi

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Built on quality • Powered by innovation • Delivered locally

ENERGY STORAGE SYSTEM

Product Catalog

For commercial and industrial projects

https://anengjipower.com

Global Layout

10%
R&D investment Annual

7GWh
Production capacity Annual

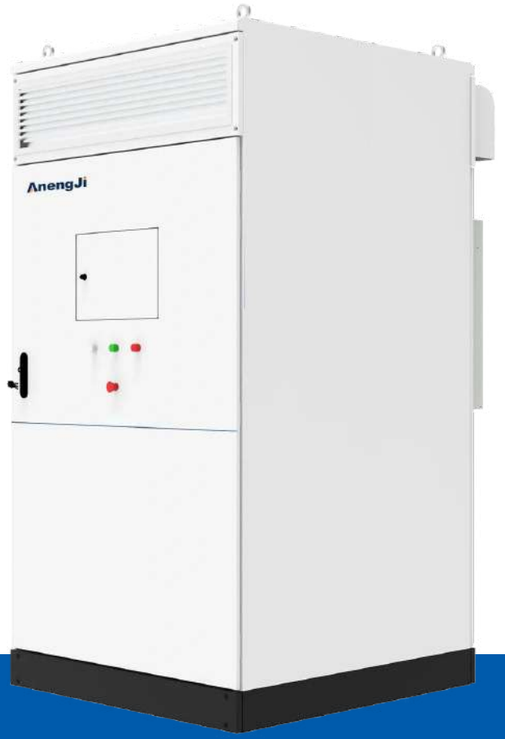
" Strategic Partner of Schneider Electric "
" Excellent Partner of ABB Electric(China) "

- Technical Support
- Headquarter
- Warehouse
- Branch Company
- ESS Factory
- Office

Contents

All-in-one Air-cooled ESS Cabinet

E101WX



Brief

The all-in-one air-cooled ESS cabinet integrates long-life battery, efficient balancing BMS, high-performance PCS, active safety system, smart distribution and HVAC into one cabinet, enabling long-term operation with safety, stability and reliability. Through AC side parallel connection, it achieves agile deployment of ESS power station with flexible capacity expansion.

Features

Fast response
1P fast charge/discharge rate.

Energy Saving
Achieve utilization of new energy via energy storing & releasing of renewables.

Economical & Efficient
RTE up to 87%, DOD up to 100%.

Flexible Expansion
Modular design, simplified parallel expansion, fast expansion.

Smart O& M
Diversified access of monitoring by HMI(local), APP/web (remote).

Safe & Reliable
IP55, fully tested and optimized thermal management, cell difference ≤ 6℃.

Specifications

DC Side	
Cell Type	LFP / 120 Ah
Pack Configuration	9.2 kWh / 1P24S
System Configuration	101 kWh / 1P264S
Rated DC Voltage	844.8 V
DC Voltage Range	739.2 ~ 950.4 V
Max. Charge/Discharge Rate	1 P
Max. Depth of Discharge	100%（25 ± 2 °C）
AC Side	
Rated Output Power	100 kW
Rated AC Voltage	400V
AC Voltage Range	±15%
Grid Type	3W+N+PE
Rated Frequency	50 Hz / 60 Hz
Power Factor	0.99/ -1 ~ +1
THDi	≤3%
DC Ratio	＜0.5% Ipn
General	
Max. Round Trip Efficiency	87%
Cycle Life	≥ 5,500 cycles
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol
Ingress Rating	IP55
Cooling	Air cooling
Operating Temperature	-25°C~55°C (Derating after 45°C)
Anticorrosion Rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Noise	≤ 75 dB
Altitude	3000m (Derating above 2000m)
Dimensions (W*D*H)	1,250*1,200*2,150 mm
Weight	2,000 kg
Safety/EMC	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4
Grid code	EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11

All-in-one Air-cooled ESS Cabinet

E241WP-2A

Brief

The E241WP-2A integrates a long-life battery system, high-performance PCS, efficient balancing BMS, active safety systems, smart distribution, and HVAC into a single cabinet, ensuring long-term operation with superior safety, stability, and reliability. Through AC-side parallel connections, it enables agile deployment of ESS power with flexible capacity expansion.

Features

Economical and Efficient
RTE up to 87%,
DoD up to 100%.

Safe & Reliable
IP55 protection level, optimized ventilation design,
cells temperature difference ≤6℃.

Commpact
1.8m² footprint only,
easy transportation & fast installation.

Flexible Expansion
Modular design, simplified parallel expansion,
fast expansion.

Long Cycle Life
Over 8,000 times cycle life,
excellent performance of battery system.

Smart O & M
Diversified O & M access,
both on APP & Cloud.

Specifications

DC Side	
Cell Type	LFP / 314 Ah
Pack Configuration	24.1 kWh / 1P24S
System Configuration	241 kWh / 1P240S
Rated DC Voltage	768 V
DC Voltage Range	672 ~ 864 V
Max. Charge/Discharge Rate	0.5 P
Max. Depth of Discharge	100% (25 ± 2 ℃)
AC Side	
Rated Output Power	125 kW
Rated AC Voltage	400 V
AC Voltage Range	±15%
Grid Type	3W+N+PE
Rated Frequency	50 Hz / 60 Hz
Power Factor	0.99/ -1 ~ +1
THDi	≤3%
DC Ratio	＜0.5% Ipn
General	
Max. Round Trip Efficiency	87%
Cycle Life	≥ 8,000 cycles
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol
Ingress Rating	IP55
Cooling	Air cooling
Operating Temperature	-25℃~55℃ (Derating after 45℃)
Anticorrosion Rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Noise	≤ 75 dB
Altitude	3000m (Derating above 2000m)
Dimensions (W*D*H)	1,250*1,450*2,250 mm
Weight	2,670 kg
Safety/EMC	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4
Grid code	EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11

All-in-one Liquid-cooled ESS Cabinet

E261LP-2A

Brief

The E261LP-2A features advanced pack-level liquid cooling and t emperature balancing, maintaining cell temperature differenc-es w ithin 3 ℃. This enhances cell temperature consistency and exte nds battery life. Its modular design enables flexible parallel con figurations and higher energy density, significantly improving the cost-effectiveness, safety, and installation convenience of ESS pro jects.

Features

Compact
1.4m² footprint only, easy transportation & fast installation.

High Integration
261kWh energy in one cabinet with remarkable endurance.

Efficient Cooling
Optimal in-PACK duct design, achieve high - efficient cooling and low energy consumption.

Flexible Expansion
Modular design, simplified parallel expansion.

Long Cycle Life
Over 8,000 times cycle life, excellent performance of battery system.

Ultimate Safety
In-PACK fire warning and protection with aerosol, prevent heat diffusion and runaway.

Specifications

DC Side	
Cell Type	LFP / 314 Ah
Pack Configuration	52.2 kWh / 1P52S
System Configuration	261 kWh / 1P260S
Rated DC Voltage	832 V
DC Voltage Range	728 ~ 936 V
Max. Charge/Discharge Rate	0.5 P
Max. Depth of Discharge	100% (25 ± 2 ℃)
AC Side	
Rated Output Power	125 kW
Rated AC Voltage	400 V
AC Voltage Range	±15%
Grid Type	3W+N+PE
Rated Frequency	50 Hz / 60 Hz
Power Factor	0.99/ -1 ~ +1
THDi	≤3%
DC Ratio	＜0.5% Ipn
General	
Max. Round Trip Efficiency	89%
Cycle Life	≥ 8,000 cycles
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol
Ingress Rating	IP55
Cooling	Liquid cooling+Forced air cooling
Operating Temperature	-25℃~55℃ (Derating after 45℃)
Anticorrosion Rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Noise	≤ 75 dB
Altitude	3000m (Derating above 2000m)
Dimensions (W*D*H)	1,050*1,350*2,400 mm
Weight	2,600 kg
Safety/EMC	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4, UL9540A
Grid code	EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11, CEI0-21, CEI0-16

All-in-one Liquid-cooled ESS Cabinet

E418LP-A40/69/80

Brief

The E418LP series includes models with 400V, 690V, and 800V output options, suitable for different application scenarios and requirements. They feature advanced pack - level liquid cooling and temperature balancing, maintaining cell temperature differences within 3℃. This enhances cell temperature consistency and extends battery life. Its modular design enables flexible parallel configurations and higher energy density, significantly improving the cost - effectiveness, safety, and installation convenience of ESS projects.

Features

Compact
2㎡ footprint only, easy transportation & fast installation.

High Integration
418kWh energy in one cabinet with remarkable endurance.

Efficient Cooling
Optimized in-PACK duct design ensures high-efficiency cooling with reduced energy consumption.

Flexible Expansion
Modular design, simplified parallel expansion.

Long Cycle Life
Over 8,000 cycles, providing excellent long-term battery performance.

Ultimate Safety
In-PACK fire warning and protection with aerosol, prevent heat diffusion and runaway.

Specifications

DC Side	ECO-E418LP-A40	ECO-E418LP-A69	ECO-E418LP-A80
Cell Type	LFP / 314 Ah		
Pack Configuration	52.248 kWh / 1P52S		
System Configuration	418 kWh / 1P416S		
Rated DC Voltage	1331.2 V		
DC Voltage Range	1164.8 ~ 1497.6 V		
Max. Charge/Discharge Rate	0.25 P	0.5 P	0.5 P
Max. Depth of Discharge	100% (25 ± 2 ℃)		
AC Side			
Rated Output Power	100 kW	210 kW	210 kW
Rated AC Voltage	400 V	690 V	800 V
AC Voltage Range	-15%~+10%		
Grid Type	3W+PE		
Rated Frequency	50 Hz / 60 Hz		
Power Factor	0.99/ -1 ~ +1		
THDi	≤3%		
DC Ratio	＜0.5% Ipn		
General			
Max. Round Trip Efficiency	89%		
Cycle Life	≥ 8,000 cycles		
Communication	Modbus TCP/IP		
Fire Suppression System	Aerosol		
Ingress Rating	IP55		
Cooling	Liquid cooling+Forced air cooling		
Operating Temperature	-25℃~55℃ (Derating after 45℃)		
Anticorrosion Rating	C4 (C5 optional)		
Humidity	0~95% RH (non-condensing)		
Noise	≤ 80 dB		
Altitude	3000m (Derating above 2000m)		
Dimensions (W*D*H)	1,500*1,350*2,400 mm		
Weight	3,800 kg		
Safety/EMC	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4		
Grid code	EN50549-1/-10, EN50549-2/-10, PN-EN-50549-1/-2		

Liquid-cooled Battery Cabinet

B418LP-2N

Brief

The B418LP-2N is a free-standing battery cabinet featuring pack-level liquid cooling and cell-level temperature balancing. It maintains temperature differences within 3 °C between cells, enhancing temperature consistency and extending battery life. Its modular design offers flexible parallel configurations and can be paired with a centralized PCS to create a complete ESS solution that delivers higher energy density and significantly improves cost-effectiveness.

Features

Compact
1.7㎡ footprint only, easy transportation & fast installation.

High Integration
Multiple units connected in parallel achieve MV/HV connection with PCS-boost containers.

Efficient Cooling
Optimal in-PACK duct design, achieve high-efficient cooling and low energy consumption.

Flexible Expansion
Support seamless cabinets combination and flexible grid access.

Long Cycle Life
Over 8,000 times cycle life, excellent performance of battery system.

Ultimate Safety
In-PACK fire warning and protection with aerosol, prevent heat diffusion and runaway.

Specifications

Item	Parameter
Cell Type	LFP / 314 Ah
Pack Configuration	52.248 kWh / 1P52S
System Configuration	418 kWh / 1P416S
Rated DC Voltage	1331.2 V
DC Voltage Range	1164.8 ~ 1497.6 V
Max. Charge/Discharge Rate	0.5 P
Max. Depth of Discharge	100% (25 ± 2 ℃)
Cycle Life	≥ 8,000 cycles
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol
Ingress Rating	IP55
Cooling	Liquid cooling+Forced air cooling
Operating Temperature	-25℃~55℃ (Derating after 45℃)
Anticorrosion Rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Altitude	4500m
Dimensions (W*D*H)	1,350*1,350*2,400 mm
Weight	3,700 kg
Safety/EMC	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4

Air-cooled Hybrid Cabinet

E64WX

Brief

The E64WX is a compact PV-plus ESS solution, designed on ESS integration and digital monitoring technologies. The cabinet integrates components such as lithium battery, HVAC, fire suppression system (FSS), and EMS. With compact structure, it enables easy installation and flexible capacity expansion. Paired with hybrid inverter, the ESS supports multiple work modes and various operation strategies.

Features

Economical & Efficient
RTE up to 87%, DOD up to 100%.

Versatile
Support multiple brands of hybrid inverter, with higher selectivity.

Safe & Reliable
IP55, optimized ventilation design, temperature difference within 6°C.

PV pluggable
Support PV connection, with higher integration.

Compact & Convenient
0.96㎡ footprint, easy to transport and install.

Self-developed
PACK and EMS are all independently developed with good compatibility.

Expandable & Modular
Modular design supports parallel connection for convenient system expansion.

Easy O & M
Support multiple ways of operation and maintenance, including onsite, cloud.

Specifications

Battery Cabinet					
Cell Type	LFP /120 Ah				
Pack Configuration	9.216 kWh / 1P24S				
System Configuration	64.512 kWh / 1P168S				
Rated DC Voltage	537.6 V				
DC Voltage Range	470.4 ~ 604.8 V				
Max. Charge/Discharge Rate	0.8 P				
Max. Depth of Discharge	100% (25 ± 2 °C)				
PV Input					
Max. input power	37.5kW	45kW	54kW	60kW	75kW
PV Voltage Range	200V~850V				
MPPT	4				
MAX. Input Current	30A*4				
AC Side					
Rated Output Power	25kW	30kW	36kW	40kW	50kW
Rated AC Voltage	400 V				
AC Voltage Range	±15%				
Grid Type	3W+N+PE				
Rated Frequency	50 Hz / 60 Hz				
Power Factor	0.99/ -1 ~ +1				
THDi	≤3%				
DC Ratio	＜0.5% Ipn				
General					
Max. Round Trip Efficiency	87%				
Cycle Life	≥ 5,500 cycles				
Communication	Modbus TCP/IP				
Fire Suppression System	Aerosol				
Ingress Rating	IP55				
Cooling	Air cooling				
Operating Temperature	-25°C~55°C (Derating after 45°C)				
Anticorrosion Rating	C4 (C5 optional)				
Humidity	0~95% RH (non-condensing)				
Altitude	3000m (Derating above 2000m)				
Dimensions (W*D*H)	800*1,200*2,030 mm				
Weight	1,000 kg				
Safety/EMC	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4				
Grid code	EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11				

Air-cooled Hybrid Cabinet

B100/120WP-2H

Brief

The B100/120WP-2H series is a professional PV-plus ESS solution, designed on ESS integration and digital monitoring technologies. The cabinet integrates components such as lithium battery, HVAC, fire suppression system (FSS), and EMS. With compact structure, it enables easy installation and flexible capacity expansion. Paired with hybrid inverter, the ESS supports multiple work modes and various operation strategies.

Features

Economical and Efficient
RTE up to 90%, DOD up to 100%.

Versatile
Support multiple brands of hybrid inverter, with higher selectivity.

Safe & Reliable
IP55, optimized ventilation design, temperature difference within 6°C.

PV pluggable
Support PV connection, with higher integration.

Compact & Convenient
0.96㎡ footprint,
easy to transport and install.

Self-developed
LFP314Ah battery cell system integration,
leading cost advantage, 3S fusion.

Expandable & Modular
Easy modular design supports parallel connection for convenient system expansion.

Easy O&M
Support multiple ways of operation and maintenance, including onsite, cloud.

Specifications

Battery Cabinet	ECO-B100WP-2H	ECO-B120WP-2H
Cell Type	LFP / 314Ah	LFP / 314Ah
Pack Configuration	20.096 kWh / 1P20S	20.096 kWh / 1P20S
System Configuration	100.48 kWh / 1P100S	120.576 kWh / 1P120S
Rated DC Voltage	320 V	384 V
DC Voltage Range	280 ~ 360 V	336 ~ 432 V
Max. Charge/Discharge Rate	0.5 P	
Max. Depth of Discharge	100% (25 ± 2°C)	
Cycle Life	≥ 8,000 cycles	

PV Input			
Max. input power	60kW	80kW	100kW
PV Votage Range	150 ~ 850V	150 ~ 850V	150 ~ 850V
MPPT	3	4	4
Max. input Current	40A*3	40A*4	40A*4

AC Side			
Rated Output Power	30kW	40kW	50kW
Rated AC Voltage	400V		
AC Voltage Range	±15%		
Grid Type	3W+N+PE		
Rated Frequency	50Hz/60Hz		
Power Factor	0.99/ -0.8 ~ +0.8		
THDi	≤3%		
DC Ratio	＜0.5% Ipn		

General	
Max. Round Trip Efficiency	90%
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol
Ingress Rating	IP55
Cooling	Air cooling
Operating Temperature	-25℃~55℃ (Derating after 45℃)
Anticorrosion Rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Altitude	3000m (Derating above 2000m)
Dimensions (W*D*H)	800*1,200*2,100 mm
Weight	1200 kg
Safety/EMC	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4
Grid code	EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11

Air-cooled Hybrid Cabinet

B241WP-2H

Brief

The B241WP-2H is an integrated air-cooled PV-plus energy storage cabinet that combines lithium battery modules, a fire suppression system (FSS), and an embedded EMS into a single compact unit. Its integrated design simplifies system architecture and installation, while the modular structure allows flexible capacity expansion as project requirements grow. When used with a hybrid inverter and intelligent energy manage-ment, the cabinet supports multiple operating modes, enabling efficient coordination between PV generation, energy storage, and load demand.

Features

Safe & Reliable
IP55, optimized ventilation design, temperature difference within 6℃.

Higher Space Utilization
1.8m² footprint, larger capacity per cabinet, saving space and site cost.

Expandable & Modular
Easy modular design supports parallel connection for convenient system expansion.

Versatile
Support multiple brands of hybrid inverter, with higher selectivity.

High PV Utilization Capability
Supports up to 250 kW PV input with wide MPPT voltage range for flexible PV system design.

Simplified System
Sufficient power for most C&I applications, reducing parallel inverters.

Specifications

Battery Cabinet					
Cell Type	LFP / 314 Ah				
Pack Configuration	24.1 kWh / 1P24S				
System Configuration	241 kWh / 1P240S				
Rated DC Voltage	768 V				
DC Voltage Range	672 ~ 864 V				
Max. Charge/Discharge Rate	0.5 P				
Max. Depth of Discharge	100% (25 ± 2 °C)				
Cycle Life	≥ 8,000 cycles				
PV Input					
Max. input power	150kW	160kW	200kW	200kW	250kW
PV Voltage Range	150 ~ 950 V				
MPPT	10				
MAX. Input Current	42A*10				
AC Side					
Rated Output Power	75kW	80kW	99.9kW	100kW	125kW
Rated AC Voltage	400 V				
AC Voltage Range	±15%				
Grid Type	3W+N+PE				
Rated Frequency	50 Hz / 60 Hz				
Power Factor	0.99/ -0.8 ~ +0.8				
THDi	≤3%				
DC Ratio	＜0.5% Ipn				
General					
Max. Round Trip Efficiency	90%				
Communication	Modbus TCP/IP				
Fire Suppression System	Aerosol				
Ingress Rating	IP55				
Cooling	Air cooling				
Operating Temperature	-25℃~55℃ (Derating after 45℃)				
Anticorrosion Rating	C4 (C5 optional)				
Humidity	0~95% RH (non-condensing)				
Altitude	3000m (Derating above 2000m)				
Dimensions (W*D*H)	1,250*1,450*2,250 mm				
Weight	2,670 kg				
Safety/EMC	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4				
Grid code	EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11				

Liquid-cooled Hybrid Cabinet

B261LP-2H

Brief

The B261LP-2H is an integrated liquid-cooled PV-plus energy storage cabinet that combines lithium battery modules, a fire suppression system (FSS), and an embedded EMS into a single compact unit. Its integrated design simplifies system architecture and installation, while the modular structure allows flexible capaci-ty expansion as project requirements grow. When used with a hybrid inverter and intelligent energy management, the cabinet supports multiple operating modes, enabling efficient coordination between PV generation, energy storage, and load demand.

Features

Higher Space Utilization
1.4m² footprint, larger capacity per cabinet, saving space and site cost.

Safe & Reliable
IP55, optimized ventilation design, temperature difference within 3°C.

Expandable & Modular
Easy modular design supports parallel connection for convenient system expansion.

High PV Utilization Capability
Supports up to 250 kW PV input with wide MPPT voltage range for flexible PV system design.

Versatile
Support multiple brands of hybrid inverter, with higher selectivity.

Simplified System
Sufficient power for most C&I applications, reducing parallel inverters.

Specifications

Battery Cabinet					
Cell Type	LFP / 314 Ah				
Pack Configuration	52.25 kWh / 1P52S				
System Configuration	261 kWh / 1P260S				
Rated DC Voltage	832V				
DC Voltage Range	728 ~ 936 V				
Max. Charge/Discharge Rate	0.5 P				
Max. Depth of Discharge	100% (25 ± 2 ℃)				
Cycle Life	≥ 8,000 cycles				
PV Input					
Max. input power	150kW	160kW	200kW	200kW	250kW
PV Voltage Range	150 ~ 950 V				
MPPT	10				
MAX. Input Current	42A*10				
AC Side					
Rated Output Power	75kW	80kW	99.9kW	100kW	125kW
Rated AC Voltage	400 V				
AC Voltage Range	±15%				
Grid Type	3W+N+PE				
Rated Frequency	50 Hz / 60 Hz				
Power Factor	0.99/ -0.8 ~ +0.8				
THDi	≤3%				
DC Ratio	＜0.5% Ipn				
General					
Max. Round Trip Efficiency	90%				
Communication	Modbus TCP/IP				
Fire Suppression System	Aerosol				
Ingress Rating	IP55				
Cooling	Liquid cooling+Forced air cooling				
Operating Temperature	-25°C~55°C (Derating after 45°C)				
Anticorrosion Rating	C4 (C5 optional)				
Humidity	0~95% RH (non-condensing)				
Altitude	3000m (Derating above 2000m)				
Dimensions (W*D*H)	1,050*1,350*2,400 mm				
Weight	2,600 kg				
Safety/EMC	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4				
Grid code	EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11				

All-in-one Liquid-cooled ESS Container

E20FT2170LP-2

Brief

Elecnova's innovative 400 V all-in-one container solution integrates PCS, EMS, BMS, cooling and fire suppression systems, AC combiner cabinet, and other essential components. The highly integrated system, combined with high-quality 314 Ah battery cells, delivers higher energy density in a compact footprint. Its efficient hybrid cooling system ensures stable operation, keeping cell temperature differences within 3 ℃. Designed in a standard 20 ft container, the solution allows easy transportation, rapid installation, and flexible deployment, making it suitable for a wide range of commercial, industrial, and utility-scale energy storage applications.

Features

Hybrid Cooling System

The liquid-cooled battery system, paired with air-cooled PCS system, provides dual assurance for optimal efficiency and outstanding performance.

All-in-One Design

Highly integrated 3S system, cooling system, and fire protection system, delivering greater capacity within a smaller footprint.

String-Based Solution

Each battery cluster is independently managed, enhancing system reliability and stability.

Standard 20ft Container

Pre-tested and pre-installed before delivery, enabling easy transportation, simple commissioning, and shorter lead times.

Specifications

DC Side	
Cell Type	LFP / 314 Ah
Pack Configuration	48.2 kWh / 1P48S
System Configuration	2170 kWh / 9P240S
Rated DC Voltage	768 V
DC Voltage Range	672 ~ 864 V
Max. Charge/Discharge Rate	0.5 P
Max. Depth of Discharge	100% (25 ± 2 °C)
AC Side	
Rated Output Power	1000 kW
Rated AC Voltage	400 V
AC Voltage Range	±15%
Grid Type	3W+N+PE
Rated Frequency	50 Hz / 60 Hz
Power Factor	0.99/ -1 ~ +1
THDi	≤3%
DC Ratio	＜0.5% Ipn
General	
Max. Round Trip Efficiency	89%
Cycle Life	≥ 8,000 cycles
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol system+Water spray system
Ingress Rating	IP55
Cooling	Liquid cooling+Forced air cooling
Operating Temperature	-25°C~55°C (Derating after 45°C)
Anticorrosion Rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Noise	≤ 80 dB
Altitude	3000m (Derating above 2000m)
Dimensions (W*D*H)	6,058*2,438*2,591 mm
Weight	28 t
Safety/EMC	UN3536, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4, UL9540A, IEC62933-5-2
Grid code	EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11, CEI0-21, CEI0-16

Liquid-cooled Battery Container

B20FT5015LP-2

Brief

The 20-ft liquid-cooled ESS container integrates PACK, EMS, BMS, HVAC, and fire suppression system (FSS) into a single container. Designed for demanding applications, the 20-ft liquid-cooled ESS container is suitable for power generation, grid, and commercial & industrial (C&I) ESS scenarios that require high power and flexible capacity.

Features

Higher Energy Density

The 20-ft liquid-cooled energy storage container offers a maximum capacity of 5.015 MWh, delivering higher energy density and reducing overall costs.

Lower Self Power Consumption

A variable-frequency compressor adapts to temperature conditions, reducing the system's power consumption.

Lower Operating Noise

Minimized fan usage significantly reduces operating noise compared to air-cooled solutions.

Longer Service Life

Enhanced cell temperature consistency extends battery life, increases safety, and improves return on investment.

Better Temperature Control

The liquid cooling system maintains cell temperature differences below 3°C, improving voltage consistency and overall performance.

Higher Protection

The container features an IP55-rated enclosure (PACK IP65), up to C5 corrosion protection, and high/low-temperature design for robust environmental resistance.

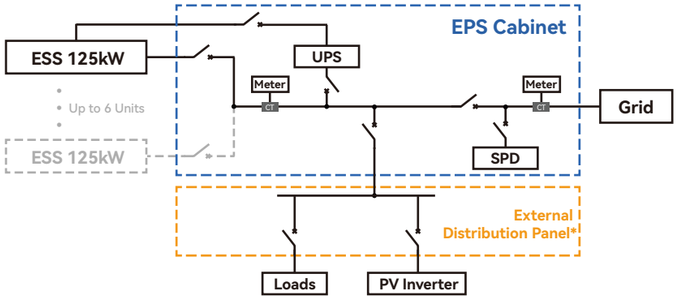
Specifications

Item	
Cell Type	LFP314 Ah
Pack Configuration	104.5kWh / 1P104S
System Configuration	5.015MWh / 12P416S
Rated DC Voltage	1331.2 V
DC Voltage Range	1165 ~ 1498 V
Max. Charge/Discharge Rate	0.5 P
Max. Depth of Discharge	100% (25 ± 2 °C)
Cycle Life	≥ 8,000 cycles
Fire Suppression System	Aerosol system+Water spray system
Ingress Rating	IP55
Cooling	Liquid cooling+Forced air cooling
Operating Temperature	-25°C~55°C (Derating after 45°C)
Anticorrosion Rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Altitude	3000m
Dimensions (W*D*H)	6,058*2,438*2,896 mm
Weight	41.8t
Safety/EMC	UN3536, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4

EPS Cabinet

EPS-C125-1/3/6IN

Recommended Compatible Products:
E101WX、E241WP-2A、E261LP-2A



*Note: Distribution panel is not included in EPS cabinet.

Brief

Elecnova EPS (Emergency Power Supply) cabinet EPS-C125-1/3/6IN series is designed to enable on/off-grid switching for single unit or multiple parallel-connected units in emergency situations, with the switching time within 20 seconds, ensuring the operation of c ritical loads under off-grid conditions. The EPS cabinet supports both remote and on-site manual switching between on/off-grid mo des, meeting the switching requirements of various application scenarios. In addition, the EPS cabinet allows the integration of gri d-tied inverters and ensures their normal operation under off-grid conditions, thereby optimizing the system logic and overall e fficiency of PV-plus-BESS projects. This enables the ESS to be applied in a wider range of complex application

Features

IP54 Outdoor Design
High protection rating for harsh environments

Space Saving
Integrated structure with minimal size.

Fast Deployment
Modular design for efficient wiring and installation.

On/off-grid Switching
Built-in UPS provides backup power for on-grid and off-grid switching.

Specifications

ESS Side Parameters	ECO-EPS-C125-1IN	ECO-EPS-C125-3IN	ECO-EPS-C125-6IN
Max. No. of ESS Connection	1	3	6
Max. ESS Current	250A	3*250A	6*250A
Max. ESS Power	125kW	3*125kW	6*125kW
Grid Side Parameters			
No. of Grid Connection Port		1	
Max. Grid Current	315A	800A	1600A
Rated Voltage		400V	
Voltage Range		400V±15%	
Grid Type		3W+N+PE	
Rated Frequency		50/60Hz	
On/off-grid Switching Time		≤20s	
PV & Loads Requirements			
Max. PV&Loads Port Current	250A	630A	1250A
Recommended Max. PV Power	170kW	430kW	860kW
Recommended Max. Load Power*		70% × ESS Power	
Auxiliary Equipments Parameters			
UPS		Standard	
Surge Protection		AC Type Ⅱ	
Meter Accuracy		0.5S	
General			
Dimension (W×D×H)	600×800×1500 mm	800×1000×2400 mm	1000×1000×2400 mm
Altitude		≤3000m	
Ambient Temperature		-10℃~40℃	
Humidity		0~95%RH (non-condensing)	
Cooling Method		Air cooling	
IP Rating		IP54	
Communication		RS485, Modbus TCP/IP	

*Note: The value indicated herein is a recommende eference based on PF=0.7. When the load involves motors or other types of impact loads, it is recommended to equip the system with a soft starter. Please contact Elecnova for further technical support prior to order placement.

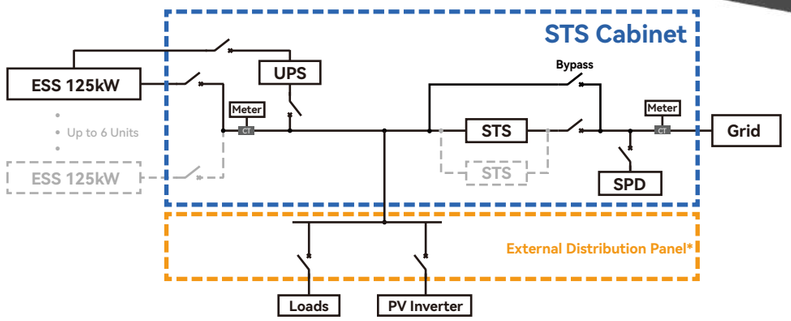
STS Cabinet

STS-C125-2/4/6IN

Recommended Compatible Products:
E101WX、E241WP-2A、E261LP-2A

Brief

Elecnova STS-C125-2/4/6IN is a seamless on/off-grid switch-ing cabinet designed for the 125kW rated power Elecnova all-in-one ESS cabinet within 20ms switching time. It enables on/off-grid switching for single or multiple parallel-connected application. Equipped with reserved ports for PV inverter power and critical loads connection, allowing for the normal operation of PV system and loads in grid outage condition.



*Note: Distribution panel is not included in STS cabinet.

Features

Intelligent collaboration
Seamless on/off-grid switching within 20ms.

Reliable
Leading brands selection of all equipments, safe and reliable.

Highly Integration
Integrate STS, UPS, meter, breakers, ATS(optional) and other accessories in one system, compact and easy transportation.

Electrical Safety
Backup design and assurance of critical loads without interuption.

Specifications

ESS Side Parameters	ECO-STS-C125-2IN	ECO-STS-C125-4IN	ECO-STS-C125-6IN
Max. No. of ESS Connection	2 units	4 units	6 units
Max. ESS Current	2*250A	4*250A	6*250A
Rated ESS Power	2*125kW	4*125kW	6*125kW
Grid Side Parameters			
No. of Grid Connection Port		1	
Max. Grid Current	500A	800A	1600A
Grid Voltage Range		400V±15%	
Grid Type		3W+N+PE	
Rated Frequency		50/60Hz	
On/off-grid Switching Time		20ms	
PV Input Requirements			
Max. PV&Loads Port Current	250A	630A	800A
Recommended Max. PV Power	170kW	430kW	550kW
Recommended Max. Load Power*		70% × ESS Power	
Auxiliary Equipments Parameters			
UPS		Standard	
Maintenance Socket		Standard, 16A	
Surge Protection		AC Type II	
Meter Accuracy		0.5S	
ATS		Optional	
General Parameters			
Dimension (W×D×H)	800×1200×1800 mm	1000×1200×1800 mm	1200×1200×2200 mm
Altitude		3000m	
Ambient Temperature		-15℃~45℃	
Humidity		0~95%RH (non-condensing)	
Cooling Method		Air cooling	
IP Rating		IP54	
Communication		RS485, Modbus TCP/IP	

*Note: The value indicated herein is a recommended reference based on PF=0.7. When the load involves motors or other types of impact loads, it is recommended to equip the system with a soft starter. Please contact Elecnova for further technical support prior to order placement.

Building a World-Class Brand
as a Top Expert in Energy Storage Solutions.