



EN.E.2511

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Elecnova



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Built on quality • Powered by innovation • Delivered locally

# ENERGY STORAGE SYSTEM

Elecnova



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# ABOUT US

Elecnova delivers smart and reliable energy storage solutions that empower businesses and communities to achieve energy independence and sustainability.

Leveraging advanced R&D and integrated manufacturing capabilities, Elecnova offers complete ESS solution packages – including PACK, PCS, BMS, and EMS – ensuring high performance, flexibility, and long-term reliability.



## Core Values

- Create value for customers
- Share value with employees
- Contribute value to community



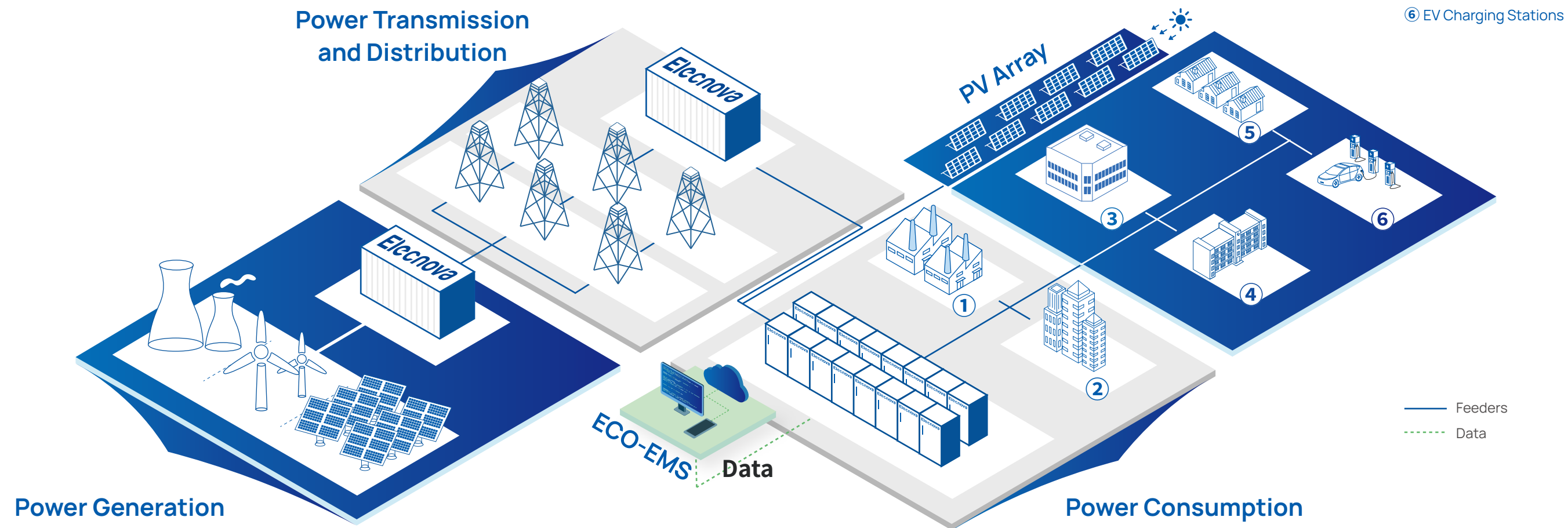
## Corporate Vision

- Elecnova is committed to shaping a smarter, greener, and more reliable energy world.



# ESS Scenarios

Provide one-stop industrial and commercial distributed energy storage battery system solutions with high safety, high reliability, high efficiency and long cycle life.



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# Contents

## 01

### C&I Ultra

ECO-E101WX	01-02
ECO-E241WP-2R	03-04
ECO-E261LP-2A	05-06
ECO-B418LP	07-08

## 02

### Solar Pro

ECO-E64WX	09-10
ECO-E100/120WP	11-12
ECO-E100/120WP-P50/60	13-14

## 03

### NovaStack

ECO-E20FT2170LP-2	15-16
ECO-B20FT5015LP	17-18

## 04

### Smart Aux

EPS Cabinet	19-20
STS Cabinet	21-24



# All-in-one Air-cooled ESS Cabinet

ECO-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**  
Conversion efficiency over 87%,  
DOD up to 100%.

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

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

**Safe & Reliable**  
IP55, fully tested and optimized thermal  
management, cell difference  $\leq 6^{\circ}\text{C}$ .

## 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 $\pm$ 2 $^{\circ}\text{C}$ )
AC Side	
Rated Output Power	100 kW
Max. Apparent Power	110 kVA
Rated AC Voltage	230 / 400 V
AC Voltage Range	$\pm 15\%$
Grid Type	3W+PE / 3W+N+PE
Rated Frequency	50 Hz / 60 Hz
Power Factor	0.99/ -1 ~ +1
THDi	$\leq 3\%$
DC Ratio	$< 0.5\%$ Ipn
General	
Round Trip Efficiency	$\geq 87\%$
Cycle Life	$\geq 5,500$ cycles
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol
Ingress Rating	IP55
Cooling	Forced air cooling
Operating Temperature	-25 $^{\circ}\text{C}$ ~55 $^{\circ}\text{C}$ (Derating after 45 $^{\circ}\text{C}$ )
Anticorrosion Rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Noise	$\leq 75$ dB
Altitude	4000m (Derating above 2000m)
Dimensions (W*D*H)	1,250*1,200*2,150 mm
Weight	2,000 kg
Certification	UN38.3, IEC62477-1, IEC61000, IEC62619, IEC63056, EN50549



# All-in-one Air-cooled ESS Cabinet

ECO-E241WP-2R

## Brief

The ECO-E241WP-2R integrates a long-life battery, 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 & Efficient**  
RTE over 87%,  
DOD up to 100%.
- Safe & Reliable**  
IP55 protection level, optimized ventilation design,  
cells temperature difference  $\leq 6^{\circ}\text{C}$ .
- Compact**  
1.8m<sup>2</sup> footprint only,  
easy transportation & fast installation.
- Long Cycle Life**  
Over 8,000 times cycle life,  
excellent performance of battery system.

- Flexible Expansion**  
Modular design, simplified parallel expansion,  
fast expansion.
- 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 $\pm$ 2 $^{\circ}\text{C}$ )
AC Side	
Rated Output Power	125 kW
Max. Apparent Power	137kVA
Rated AC Voltage	230 / 400 V
AC Voltage Range	$\pm 15\%$
Grid Type	3W+PE / 3W+N+PE
Rated Frequency	50 Hz / 60 Hz
Power Factor	0.99/ -1 ~ +1
THDi	$\leq 3\%$
DC Ratio	$< 0.5\%$ Ipn
General	
Round Trip Efficiency	$\geq 87\%$
Cycle Life	$\geq 8,000$ cycles
Communication	Modbus TCP/RTU
Fire Suppression System	Aerosol
Ingress Rating	IP55
Cooling	Forced air cooling
Operating Temperature	-25 $^{\circ}\text{C}$ ~55 $^{\circ}\text{C}$ (Derating after 45 $^{\circ}\text{C}$ )
Anticorrosion Rating	C4 (C5 optional)
Humidity	5~95% RH (non-condensing)
Noise	$\leq 75$ dB
Altitude	4000m (Derating above 2000m)
Dimensions (W*D*H)	1,250*1,450*2,250 mm
Weight	2,670 kg
Certification	UN38.3, IEC62477-1, IEC61000, IEC62619, IEC63056



# All-in-one Liquid-cooled ESS Cabinet

ECO-E261LP-2A

## Brief

The ECO-E261LP-2A features advanced pack-level liquid cooling and temperature balancing, maintaining cell temperature differences within 3°C. 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

1.4m<sup>2</sup> 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.



### Long Cycle Life

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



### Flexible Expansion

Modular design, simplified parallel expansion.



### 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 °C)
AC Side	
Rated Output Power	125 kW
Max. Apparent Power	137kVA
Rated AC Voltage	230 / 400 V
AC Voltage Range	±15%
Grid Type	3W+PE / 3W+N+PE
Rated Frequency	50 Hz / 60 Hz
Power Factor	0.99/ -1 ~ +1
THDi	≤3%
DC Ratio	< 0.5% I <sub>pn</sub>
General	
Round Trip Efficiency	≥ 89%
Cycle Life	≥ 8,000 cycles
Communication	Modbus TCP/RTU
Fire Suppression System	Aerosol
Ingress Rating	IP55
Cooling	Active liquid cooling
Operating Temperature	-25°C~55°C (Derating after 45°C)
Anticorrosion Rating	C4 (C5 optional)
Humidity	5~95% RH (non-condensing)
Noise	≤ 75 dB
Altitude	4000m (Derating above 2000m)
Dimensions (W*D*H)	1,050*1,350*2,400 mm
Weight	2,600 kg
Compliance	UN38.3, IEC62477-1, IEC61000, IEC62619, IEC63056, UL9540A, EN50549



# Liquid-cooled Battery Cabinet

ECO-B418LP

## Brief

The ECO-B418LP 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**  
1.7m<sup>2</sup> footprint only, easy transportation & fast installation.

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

**Efficient Cooling**  
Optimized in-pack liquid-cooled design ensures high cooling efficiency with low energy consumption.

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

**Flexible Expansion**  
Support seamless cabinets combination and flexible grid access

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

## Specifications

Item	
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 °C)
Cycle Life	≥ 8,000 cycles
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol
Ingress Rating	IP55
Cooling	Liquid cooling
Operating Temperature	-25°C~55°C (Derating after 45°C)
Anticorrosion Rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Altitude	4500m
Dimensions (W*D*H)	1,300*1,300*2,400 mm
Weight	3,700 kg
Certification	UN38.3, IEC62477-1, IEC61000, IEC62619, IEC63056



# Air-cooled Hybrid Cabinet

ECO-E64WX

## Brief

The ECO-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 over 87%, DOD over 100%.
- Safe & Reliable**  
IP55, optimized ventilation design, temperature difference within 6°C.
- Compact & Convenient**  
0.96m² footprint, easy to transport and install.
- Expandable & Modular**  
Modular design supports parallel connection for convenient system expansion.
- Versatile**  
Support multiple brands of hybrid inverter, with higher selectivity.
- PV pluggable**  
Support PV connection, with higher integration.
- Self-developed**  
PACK and EMS are all independently developed with good compatibility.
- 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					
Recommended input power Max.	37.5kW	45kW	54kW	60kW	75kW
PV Voltage	200V~850V				
MPPT	4				
MAX. Input Current	30A*4				
AC Side					
Rated Output Power	25kW	30kW	36kW	40kW	50kW
Max. Apparent Power	27.5kVA	33kVA	39.6kVA	44kVA	55kVA
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					
Round Trip Efficiency	≥ 87%				
Cycle Life	≥ 5,500 cycles				
Communication	Modbus TCP/IP				
Fire Suppression System	Aerosol				
Ingress Rating	IP55				
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	4000m (Derating above 2000m)				
Dimensions (W*D*H)	800*1,200*2,030 mm				
Weight	1 t				
Certification	UN38.3, IEC62477, IEC61000, IEC62619, IEC63056				



# Air-cooled Hybrid Cabinet

## ECO-E100/120WP

### Brief

The ECO-E100/120WP 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 & Efficient**  
RTE over 90%, DOD up to 100%.



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



**Compact & Convenient**  
0.96m<sup>2</sup> footprint, easy to transport and install.



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



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



**PV pluggable**  
Support PV connection, with higher integration.



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



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



### Specifications

Battery Cabinet	ECO-E100WP		ECO-E120WP	
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℃)			
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	
Max. Apparent Power	33kVA	44kVA	55kVA	
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				
Round Trip Efficiency	≥ 90%			
Communication	Modbus TCP/IP			
Fire Suppression System	Aerosol			
Ingress Rating	IP55			
Cooling	Forced air cooling			
Operating Temperature	-25℃~55℃ (Derating after 45℃)			
Anticorrosion Rating	C4 (C5 optional)			
Humidity	0~95% RH (non-condensing)			
Altitude	4000m (Derating above 2000m)			
Dimensions (W*D*H)	800*1,200*2,000 mm			
Weight	1200 kg			
Certification	UN38.3, IEC62477, IEC61000, IEC62619, IEC63056			



# All-in-one Air-cooled Hybrid Cabinet

ECO-E100/120WP-P50/60

## Brief

The all-in-one hybrid cabinet series consists of a battery cabinet and a PCS cabinet. The battery cabinet is available in 100kWh and 120kWh models, while the PCS cabinet can be selected in 50kW or 60kW options and integrated MPPT module supports connection to PV panels. The battery and PCS cabinets can be flexibly combined to meet diverse application requirements.



## Features



**Economical & Efficient**  
The efficient system integration design delivers outstanding performance and high system conversion efficiency.



**Modular Design**  
The modular layout simplifies installation, wiring, and maintenance procedures, while supporting flexible capacity expansion.



**Flexible Expansion**  
Modular design, simplified parallel expansion and maintenance.



**Robust Protection**  
The modular solution features an IP55-rated enclosure suitable for outdoor installation, compatible with C5 corrosion protection standards.



**Fully Certified**  
The modular solution features an IP55-rated enclosure suitable for outdoor installation, compatible with C5 corrosion protection standards.



**Easy O&M**  
Real-time data is uploaded to Elecnova's monitoring cloud and mobile app, providing convenient remote operations and maintenance.

## Specifications

Battery Cabinet	ECO-E100WP	ECO-E120WP
Cell Type	LFP / 314Ah	LFP / 314Ah
Pack Configuration	20.096 kWh / 1P20S	20.096 kWh / 1P20S
System Configuration	100.48 kWh / 1P120S	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	
PCS Cabinet	P50	P60
Rated Output Power	50kW	60kW
Rated AC Voltage	400V	400V
AC Voltage Range	±15%	±15%
Grid Type	3W+PE / 3W+N+PE	3W+PE / 3W+N+PE
Rated Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
Power Factor	0.99/ -1 ~ +1	0.99/ -1 ~ +1
Max. PV Input Power	50kW	60kW
General		
Round Trip Efficiency	≥ 88%	
Communication	Modbus TCP/IP	
Fire Detection	Smoke sensor & Temperature sensor	
Fire Safety	Aerosol	
Ingress Rating	IP55	
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	4000m (Derating above 2000m)	
Dimensions (W*D*H)	1250*1200*2100 mm	
Weight	1620 kg	
Certification	UN38.3, IEC62477, IEC61000, IEC62619, IEC63056, EN50549-2, C10/11, EN50549-1, EN50549-10	



# All-in-one Liquid-cooled ESS Container

ECO-E20FT2170LP-2



## Brief

Elecnova's innovative 400V 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 314Ah battery cells, delivers higher energy density in a compact footprint. Its efficient hybrid cooling system ensures stable operation, keeping cell temperature differences within 3°C. Designed in a standard 20ft 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
Max. Apparent Power	1100 kVA
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% I <sub>pn</sub>
General	
Round Trip Efficiency	≥ 87%
Cycle Life	≥ 8,000 cycles
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol system(pack level and container level), 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	5~95% RH (non-condensing)
Noise	≤ 80 dB
Altitude	4000m (Derating above 2000m)
Dimensions (W*D*H)	6,058*2,438*2,591 mm
Weight	28 t
Certification	UN38.3, IEC62477-1, CE/EMC, IEC62619, IEC63056, UL9540A, IEC62933 EN50549

# Liquid-cooled Battery Container

ECO-B20FT5015LP



## 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 5.015MWh, 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

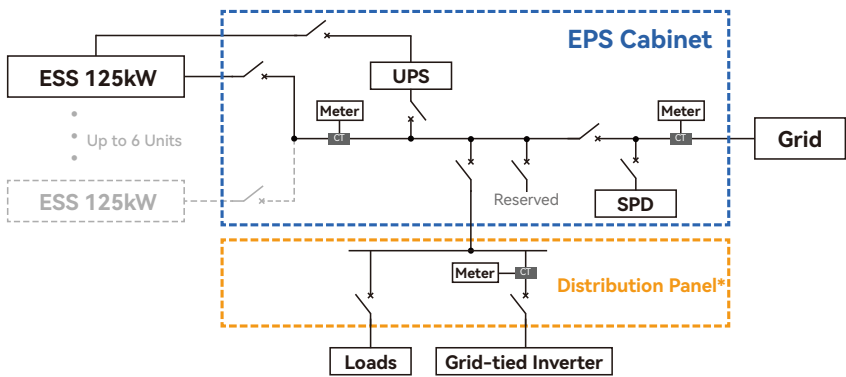
Item	
Cell Type	LFP314 Ah
Pack Configuration	104.5kWh / 1P104S
System Configuration	5.015MWh / 12P416S
Rated DC Voltage	1331.2 V
DC Voltage Range	1165 ~ 1498 V
Max. Charge/Discharge Rate	0.5 P
Max. Depth of Discharge	100% (25 ± 2 °C)
Cycle Life	≥ 8,000 cycles
Fire Suppression System	Aerosol system(pack level and container level), 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	4000m
Dimensions (W*D*H)	6,058*2,438*2,896 mm
Weight	45 t
Certification	IEC62477, IEC61000, IEC62619, IEC63056, UL9540A, UN3536



# EPS Cabinet

## ECO-EPS125/375/750-C

**Recommended Compatible Products:**  
ECO-E101WX、ECO-E215WS、ECO-E233LS、ECO-E241WP-2R、CO-E261LP-2A



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



### Brief

Elecnova EPS (Emergency Power Supply) cabinet ECO-EPS125/375/750-C 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 critical loads under off-grid conditions. The EPS cabinet supports both remote and on-site manual switching between on/off-grid modes, meeting the switching requirements of various application scenarios. In addition, the EPS cabinet allows the integration of grid-tied inverters and ensures their normal operation under off-grid conditions, thereby optimizing the system logic and overall efficiency of PV-plus-BESS projects. This enables the ESS to be applied in a wider range of complex application scenarios.

### 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-EPS125-C	ECO-EPS375-C	ECO-EPS750-C
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 Power	218kW	554kW	1108kW
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
RecommendedMax. PV Inverter Power		100% × ESS Power	
Recommended Max. Load Power*		70% × ESS Power	
Auxiliary Equipments Parameters			
UPS Power	1kVA	3kVA	5kVA
Surge Protection		AC Type II	
Meter Accuracy		0.5S	
General			
Dimension (W×D×H)	600×800×1500 mm	800×1000×2400 mm	1000×1350×2400 mm
Altitude		≤3000m	
Ambient Temperature		-10℃~40℃	
Humidity		0%RH~95%RH, non-condensing	
Cooling Method		Intelligent 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.

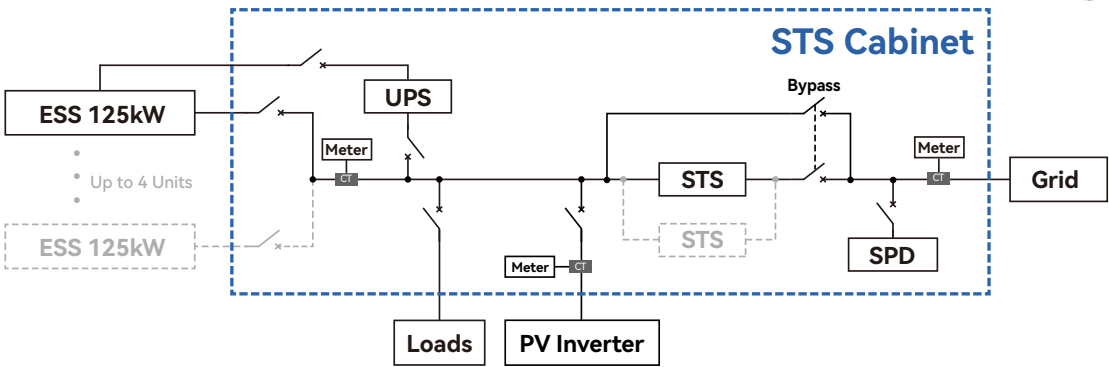
# STS Cabinet

## ECO-ST200/500/800-C100

**Recommended Compatible Products:**  
ECO-E101WX, ECO-E215WS, ECO-E233LS

### Brief

Elecnova ECO-ST200/500/800-C100 is a seamless on/off-grid switching cabinet designed for the 100kW 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.



### 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 cabinet, compact and easy transportation.

**Electrical Safety**  
Backup design and assurance of critical loads without interruption.

### Specifications

ESS Side Parameters	ECO-ST200-C100	ECO-ST500-C100	ECO-ST800-C100
Max. No. of ESS Connection	1 unit	3 units	5 units
Max. ESS Current	225A	3*225A	5*225A
Rated ESS Power	100kW	3*100kW	5*100kW
Grid Side Parameters			
No. of Grid Connection Port	1		
Max. Grid Current	400A	1000A	1600A
Rated Voltage	400V		
Grid Voltage Range	400V±15%		
Grid Type	3W+N+PE		
Rated Frequency	50/60Hz		
On/off-grid Switching Time	≤20s		
PV Input Requirements			
Max. PV Port Current	250A	630A	1000A
Recommended Max. PV Inverter Input Power	100% × ESS Power		
Loads Requirements			
Max. Load Current	250A	630A	1000A
Recommended Max. Load Power*	70% × ESS Power		
Auxiliary Equipments Parameters			
UPS Power	1kVA	3kVA	6kVA
Surge Protection	AC Type II		
Meter Accuracy	0.5S		
ATS	Optional		
General			
Dimension (W×D×H)	800×1350×2400 mm	1000×1350×2400 mm	1200×1350×2400 mm
Weight	500kg	550kg	1080kg
Altitude	≤3000m (derate above 2000m)		
Ambient Temperature	-15℃~45℃		
Humidity	0%RH~95%RH, non-condensing		
Cooling Method	Intelligent air cooling		
IP Rating	IP55		
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.



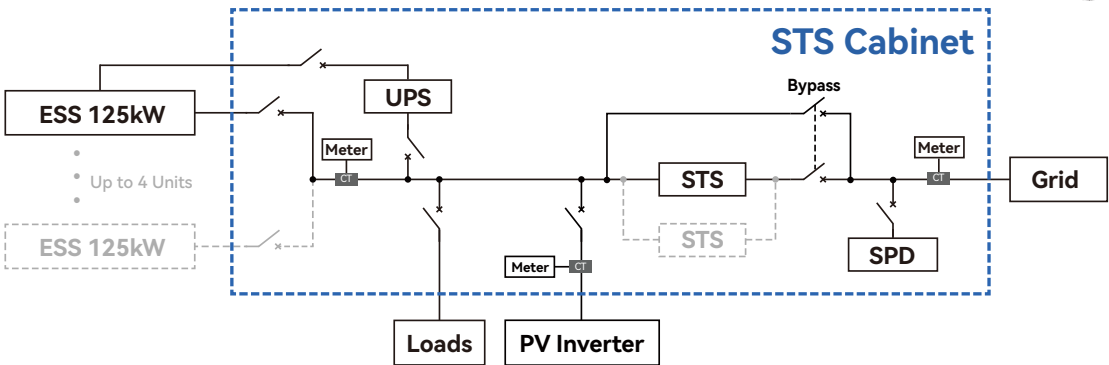
# STS Cabinet

## ECO-ST S250/500/800-C125

**Recommended Compatible Products:**  
ECO-E241WP-2R、ECO-E261LP-2A

### Brief

Elecnova ECO-ST S250/500/800-C125 is a seamless on/off-grid switching 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.



### 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 cabinet, compact and easy transportation.

**Electrical Safety**  
Backup design and assurance of critical loads without interruption.

### Specifications

ESS Side Parameters	ECO-ST S250-C125	ECO-ST S500-C125	ECO-ST S800-C125
Max. No. of ESS Connection	1 unit	2 units	4 units
Max. ESS Current	250A	2*250A	4*250A
Rated ESS Power	125kW	2*125kW	4*125kW
Grid Side Parameters			
No. of Grid Connection Port	1		
Max. Grid Current	500A	1000A	1600A
Rated Voltage	400V		
Grid Voltage Range	400V±15%		
Grid Type	3W+N+PE		
Rated Frequency	50/60Hz		
On/off-grid Switching Time	≤20s		
PV Input Requirements			
Max. PV Port Current	250A	630A	1000A
Recommended Max. PV Inverter Input Power	100% × ESS Power		
Loads Requirements			
Max. Load Current	250A	500A	1000A
Recommended Max. Load Power*	70% × ESS Power		
Auxiliary Equipments Parameters			
UPS Power	1kVA	3kVA	6kVA
Surge Protection	AC Type II		
Meter Accuracy	0.5S		
ATS	Optional		
General			
Dimension (W×D×H)	800×1350×2400 mm	1000×1350×2400 mm	1200×1350×2400 mm
Weight	500kg	550kg	1080kg
Altitude	≤3000m (derate above 2000m)		
Ambient Temperature	-15℃~45℃		
Humidity	0%RH~95%RH, non-condensing		
Cooling Method	Intelligent air cooling		
IP Rating	IP55		
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.