

# Elecnova



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Built on quality • Powered by innovation • Delivered locally

# ENERGY STORAGE SYSTEM

## Elecnova



[www.elecnova-ess.com](http://www.elecnova-ess.com)

# 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.



## Corporate Vision

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



## Enterprise Spirit

- Unity in a concerted effort
- Honesty
- Intelligence, innovation
- Scientific development

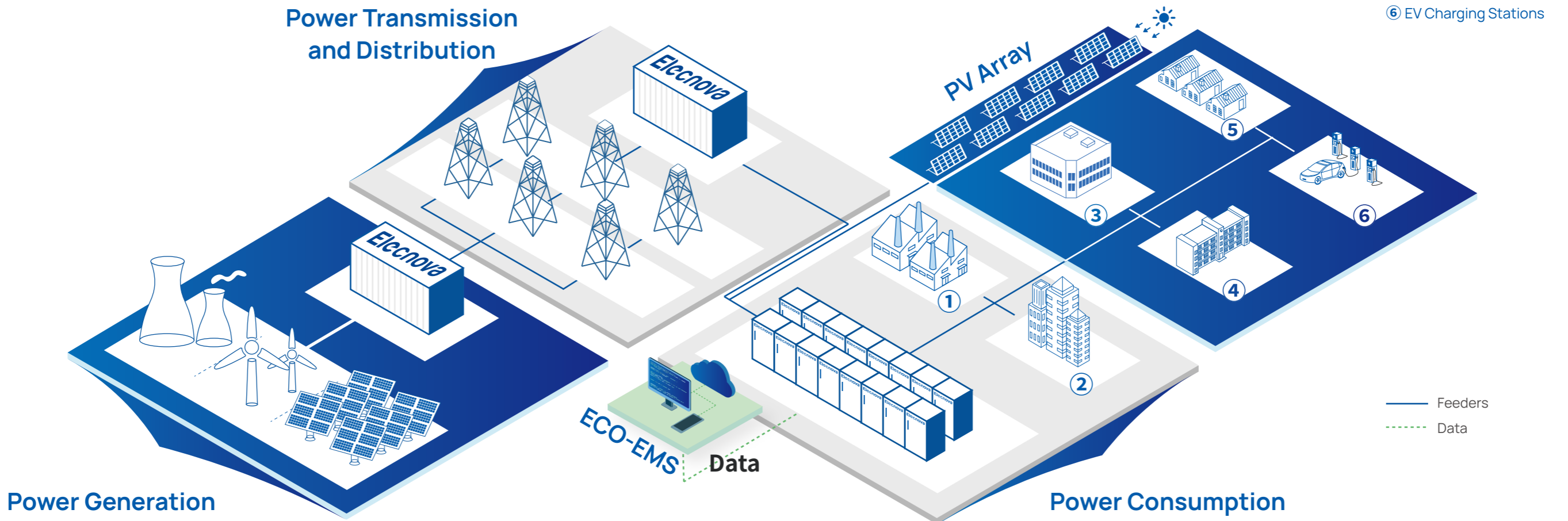


## Core Values

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

# 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.



- ① Industrial Parks
- ② Commercial Buildings
- ③ Data Centres
- ④ Utility Facilities
- ⑤ Dwellings
- ⑥ EV Charging Stations

-   
 Energy Arbitrage
-   
 Power Quality Optimisation
-   
 Power Market Ancillary Services
-   
 Backup Power Supply
-   
 Microgrid
-   
 VPP

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# 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 88%,  
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 ± 2 °C)
AC Side	
Rated Output Power	100 kW
Max. Apparent Power	110 kVA
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% Ipn
General	
Round Trip Efficiency	≥ 88%
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)
Noise	≤ 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-2A

### Brief

The ECO-E241WP-2A 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 89%,  
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 ± 2 °C)
AC Side	
Rated Output Power	125 kW
Max. Apparent Power	138kVA
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% Ipn
General	
Round Trip Efficiency	≥ 89%
Cycle Life	≥ 8,000 cycles
Communication	Modbus TCP/RTU
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	5~95% RH (non-condensing)
Noise	≤ 75 dB
Altitude	4000m (Derating above 2000m)
Dimensions (W*D*H)	1,250*1,450*2,250 mm
Weight	2,600 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	138kVA
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% Ipn
General	
Round Trip Efficiency	≥ 89%
Cycle Life	≥ 8,000 cycles
Communication	Modbus TCP/RTU
Fire Suppression System	Aerosol (Pack-level&Cabinet-level)
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

# 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	≥ 88%
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

# 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%.

**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**  
0.96m<sup>2</sup> 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					
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% I <sub>pn</sub>				
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-E120/144WP

### Brief

The ECO-E120/144WP 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%.



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



**Self-developed**  
LFP280Ah battery cell system integration, leading cost advantage, 3S fusion.



**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	ECO-E120WP	ECO-E144WP	
Cell Type	LFP / 314Ah	LFP / 314Ah	
Pack Configuration	24.115 kWh / 1P24S	24.115 kWh / 1P24S	
System Configuration	120.576 kWh / 1P120S	144.691 kWh / 1P144S	
Rated DC Voltage	384V	460.8 V	
DC Voltage Range	336~432V	403.2 ~ 518.4 V	
Max. Charge/Discharge Rate	0.5 P		
Max. Depth of Discharge	100% (25 ± 2°C)		
PV Input			
Max. input power	60kW	80kW	100kW
PV Voltage 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% I <sub>pn</sub>		
General			
Round Trip Efficiency	≥ 90%		
Cycle Life	≥ 8,000 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*2,000 mm		
Weight	1.2 t		
Certification	UN38.3, IEC62477, IEC61000, IEC62619, IEC63056		

# All-in-one Air-cooled Hybrid Cabinet

ECO-E120/144WP-P50/63/70

## Brief

The all-in-one hybrid cabinet series consists of a battery cabinet and a PCS cabinet. The battery cabinet is available in 120kWh and 144kWh models, while the PCS cabinet can be selected in 50kW, 63kW, or 70kW 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 product has achieved EN50549-2 + C10/11 Type B certification for Belgium and EN50549-1 certification for the Netherlands.



### 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-E120WP	ECO-E144WP	
Cell Type	LFP / 314Ah	LFP / 314Ah	
Pack Configuration	24.115 kWh / 1P24S	24.115 kWh / 1P24S	
System Configuration	120.576 kWh / 1P120S	144.691 kWh / 1P144S	
Rated DC Voltage	384V	460.8 V	
DC Voltage Range	336~432V	403.2 ~ 518.4 V	
Max. Charge/Discharge Rate	0.5 P		
Max. Depth of Discharge	100% (25 ± 2 °C)		
Cycle Life	≥ 8,000 cycles		
PCS Cabinet	P50	P63	P70
Rated Output Power	50kW	63kW	70kW
Rated AC Voltage	400V		
AC Voltage Range	±15%		
Grid Type	3W+PE / 3W+N+PE		
Rated Frequency	50 Hz / 60 Hz		
Power Factor	0.99/ -1 ~ +1		
Max. PV Input Power	50kW	63kW	70kW
General			
Communication	Modbus TCP/IP		
Round Trip Efficiency	≥ 90%		
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		

# 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 5,500 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

# 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

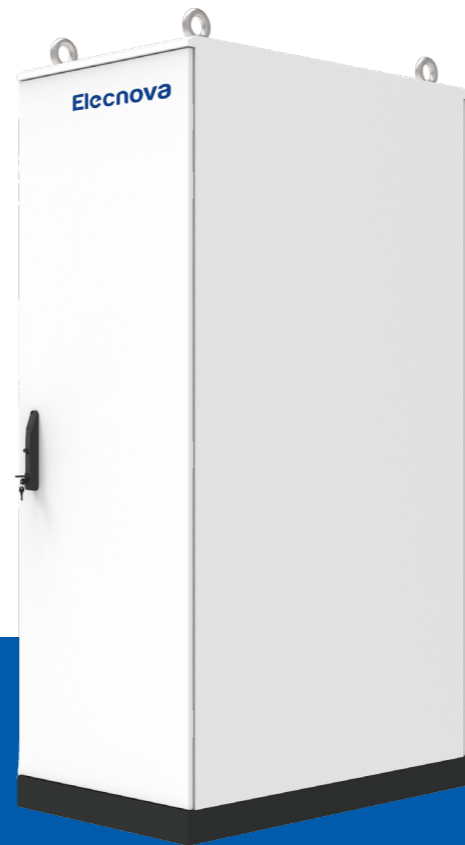
Item	
Cell Type	LFP314 Ah
Pack Configuration	104.5kWh / 1P104S
System Configuration	5.015MWh / 12P416S
Rated DC Voltage	1331.2 V
DC Voltage Range	1165 ~ 1498 V
Max. Charge/Discharge Rate	0.5 P
Max. Depth of Discharge	100% (25 ± 2 °C)
Cycle Life	≥ 8,000 cycles
Fire Suppression System	Aerosol system(pack 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

# POC Cabinet

ECO-POC200/400/600-C

## Brief

The ECO-POC200/400/600-C cabinet is designed for AC power distribution and connecting energy storage system to utility grid. It is equipped with high-quality electrical switches and protective components, ensuring reliable and stable operation. Its high level of integration allows for quick installation and efficient wiring, greatly reducing project construction time and enhancing overall delivery efficiency. This makes it an ideal power integration solution for commercial and industrial energy storage applications.



## Features



### IP55 Outdoor Design

High protection rating for harsh environments.



### Fast Deployment

Modular design for efficient wiring and installation.



### Perfect Compatibility

Highly integrated and flexible combination with ECO series ESS cabinets



### Space Saving

Integrated structure with minimal footprint.

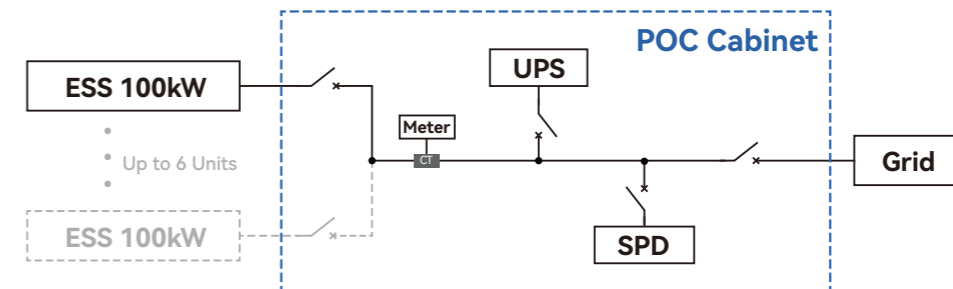


### More reliable

Equipping UPS power supply provides greater electrical safety.



## Sample Diagram



## Specifications

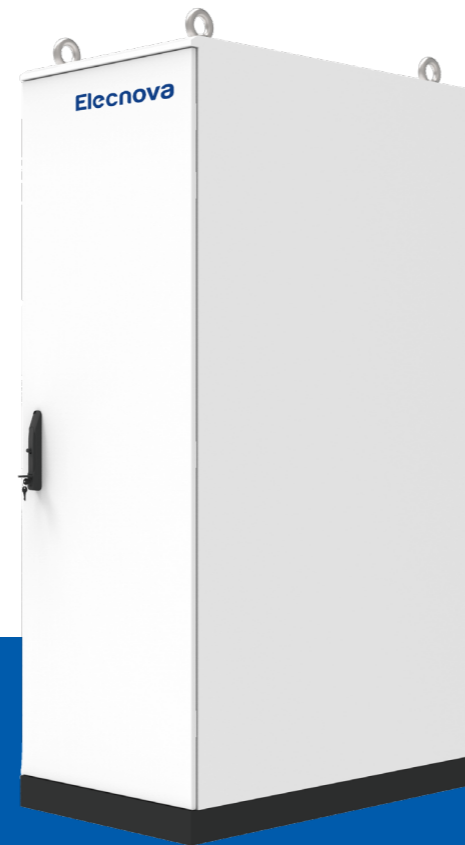
POC parameters	ECO-POC200-C	ECO-POC400-C	ECO-POC600-C
Max. grid port power	200 kW	400kW	600kW
Max. grid port current	289A	577A	866A
No. of grid connection port	1	1	1
Max. ESS side power	200 kW	400kW	600kW
Max. ESS side current	289A	577A	866A
No. of ESS connection port	2	4	6
Rated voltage	400V		
Grid terminal voltage range	400V±15%		
Grid Type	3W+N+PE		
Rated frequency	50/60Hz		
Auxiliary Equipments Parameters			
UPS power	1kVA	2kVA	3kVA
Surge Protection	AC Type II		
Meter accuracy	0.5S		
General			
Dimension (W×D×H)	800×1300×2400 mm		
Weight	450kg	480kg	510kg
Altitude	4000m (Derate above 2000m)		
Operating temperature	-25°C~55°C (Derate above 45°C)		
Humidity	0%RH~95%RH, non-condensing		
Cooling method	Air cooling		
IP rating	IP55		
Communication	LAN		

# STS Cabinet

## ECO-ST200/500-C

### Brief

The ECO-ST200/500-C cabinet is designed to work with ESS cabinets, enabling seamless off-grid switching within 20 ms during utility interruptions to ensure the safety of critical loads. With dedicated ports for PV inverter and critical loads connections, it allows PV systems and loads to continue operating normally under off-grid conditions.



### Features

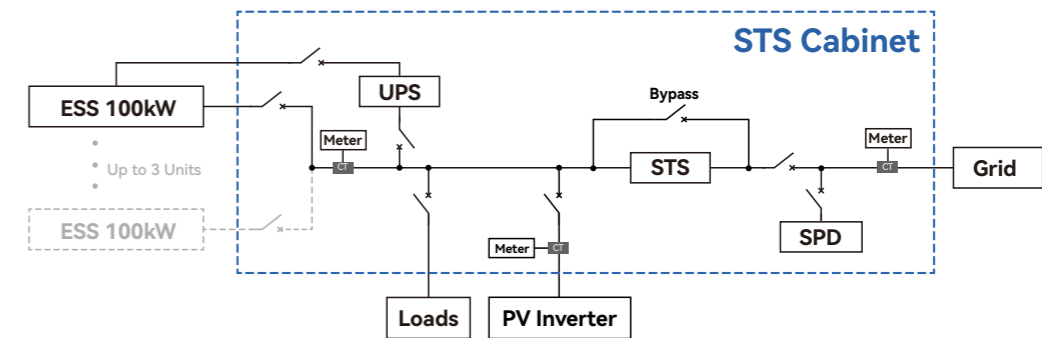
**Economical & Efficient**  
RTE over 90%, DOD up to 100%.

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

**Multi-functionality**  
0.96m<sup>2</sup> footprint, easy to transport and install.

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

### Sample Diagram



### Specifications

POC parameters	ECO-ST200-C	ECO-ST500-C
Max. grid port power	200kW	500kW
Max. grid port current	289A	722A
Max. ESS side power	100kW	300kW
Max. ESS side current	145A	433A
Max. No. of ESS connection	1 unit	3 units
Max. load power*	100kW	200kW
Max. load current	145A	290A
Rated voltage	400V	
Grid terminal voltage range	400V±15%	
Grid Type	3W+N+PE	
Rated frequency	50/60Hz	
On/off-grid switching time	< 20ms	
Max. efficiency	99.5%	
Auxiliary Equipments Parameters		
UPS power	1kVA	3kVA
PV inverter access	100kW	500kW
Surge Protection	AC Type II	
Meter accuracy	0.5S	
General		
Dimension (W×D×H)	800×1300×2400 mm	
Weight	550kg	
Altitude	4000m(derate above 2000m)	
Operating temperature	-25°C~55°C(derate above 45°C)	
Humidity	0%RH~95%RH, non-condensing	
Cooling method	Intelligent air cooling	
IP rating	IP55	
Communication	LAN	

\*Impact loads are not suitable for this solution. If you need to connect impact loads, please contact Elecnova.



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