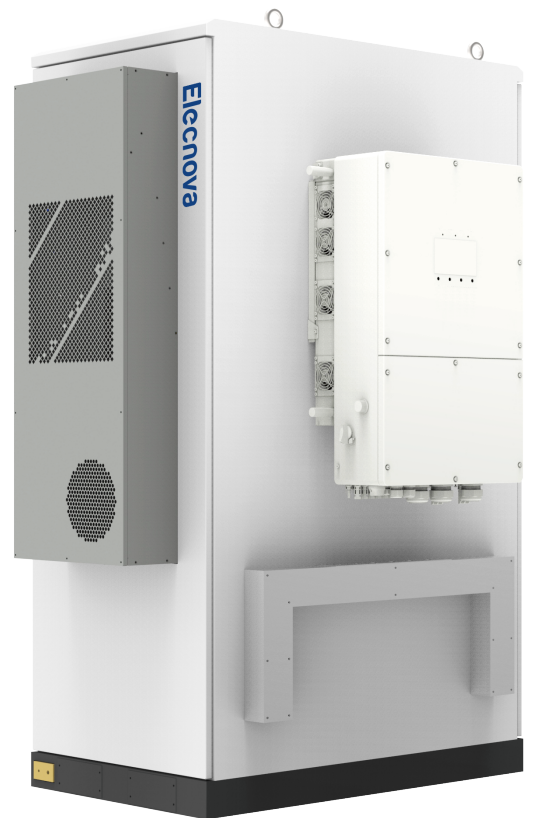


Air-cooled Hybrid Cabinet

ECO-E100/120WP

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.



Economic & Efficient

RTE over 90%, DOD up to 100%.



Safe & Reliable

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



Compact & Convenient

0.96m² 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°C)		
Cycle Life	≥ 8,000 cycles		
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 _{pn}		
General			
Round Trip Efficiency	≥ 90%		
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*1200*2100 mm		
Weight	1200 kg		
Certification	UN38.3, IEC62477, IEC61000, IEC62619, IEC63056		

