Elecnova

ELECNOVA ENERGY STORAGE CO., LTD.

Air-cooled Hybrid Cabinet

ECO-B100/120WP-2H

The ECO-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.



Economical and Efficient

RTE up to 90%, DOD up to 100%.

Safe & Reliable

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

Compact & Convenient

0.96㎡ footprint,
easy to transport and install.

PV pluggable

Support PV connection, with higher integration.

Expandable & Modular

Easy modular design supports parallel connection for convenient system expansion.

Self-developed

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

Versatile

Support multiple brands of hybrid inverter, with higher selectivity.

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	0.5 P
Max. Depth of Discharge	100% (25 ± 2°C)	100% (25 ± 2°C)
Cycle Life	≥ 8,000 cycles	≥ 8,000 cycles
PV Input		
Max. input power	59.8kW / 60kW / 80kW / 98kW / 100kW	59.8kW / 60kW / 80kW / 98kW / 100kW / 100kW
PV Votage Range	150 ~ 850V	150 ~ 850V
MPPT	3 / 4	3 / 4
Max. input Current	40A*3 / 40A*4	40A*3 / 40A*4
AC Side		
Rated Output Power	29.9kW / 30kW / 40kW / 49kW / 50kW	29.9kW / 30kW / 40kW / 49kW / 50kW / 60kW
Rated AC Voltage	400V	400V
AC Voltage Range	±15%	±15%
Grid Type	3W+N+PE	3W+N+PE
Rated Frequency	50Hz/60Hz	50Hz/60Hz
Power Factor	0.99/ -0.8 ~ +0.8	0.99/ -0.8 ~ +0.8
THDi	≤3%	≤3%
DC Ratio	＜0.5% Ipn	＜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°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*2,100 mm (Foundation) 1,536*1,377*2,100mm (Entire)	
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	

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