

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

0.96m² 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-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% I _{pn}			
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			
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			