

Air-cooled Hybrid Cabinet

ECO-B100/120WP-2H

Brief

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.



Features

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Economical and Efficient
 RTE up to 90%, DOD up to 100%.
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Safe & Reliable
 IP55, optimized ventilation design, temperature difference within 6°C.
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Compact & Convenient
 0.96m² footprint, easy to transport and install.
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Expandable & Modular
 Easy modular design supports parallel connection for convenient system expansion.
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Versatile
 Support multiple brands of hybrid inverter, with higher selectivity.
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PV pluggable
 Support PV connection, with higher integration.
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Self-developed
 LFP314Ah battery cell system integration, leading cost advantage, 3S fusion.
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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℃)					100% (25 ± 2℃)					
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℃~55℃ (Derating after 45℃)										
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										