

Air-cooled

All-in-one Hybrid Cabinet

The Air-cooled Hybrid Cabinet 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.

100/125KW **215/253KWh**



Features



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.

Air-Cooled Hybrid Cabinet

PRODUCT DESCRIPTION

Battery Cabinet		
Cell Type	LFP / 314Ah	LFP / 314 Ah
Pack Configuration	17.92 kWh / 1P20S	18.086 kWh / 1P*18S
System Configuration	215.04 kWh / 1P240S	253.209 kWh / 1P252S
Rated DC Voltage	768V	806.4V
DC Voltage Range	672 V~864 V	705.6V~907.2V
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	100kW	125kW
PV Voltage Range	180 ~ 1000V	180 ~ 1000V
MPPT	10	10
Max. input Current	42A*10	42A*10
AC Side		
Rated Output Power	40kW	
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%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	
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	