Air-cooled Hybrid Cabinet

ECO-E64WX



Brief

The ECO-E64WX is a compact 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

Economical & Efficient
RTE up to 87%, DOD up to 100%.

Versatile
Support multiple brands of hybrid inverter, with higher selectivity.

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

PV pluggable
Support PV connection, with higher integration.

Compact & Convenient
0.96㎡ footprint, easy to transport and install.

Self-developed
PACK and EMS are all independently developed with good compatibility.

Expandable & Modular
Modular design supports parallel connection for convenient system expansion.

Easy O & M
Support multiple ways of operation and maintenance, including onsite, cloud.

Specifications

Battery Cabinet					
Cell Type	LFP /120 Ah				
Pack Configuration	9.216 kWh / 1P24S				
System Configuration	64.512 kWh / 1P168S				
Rated DC Voltage	537.6 V				
DC Voltage Range	470.4 ~ 604.8 V				
Max. Charge/Discharge Rate	0.8 P				
Max. Depth of Discharge	100% (25 ± 2 °C)				
PV Input					
Max. input power	37.5kW	45kW	54kW	60kW	75kW
PV Voltage Range	200V~850V				
MPPT	4				
MAX. Input Current	30A*4				
AC Side					
Rated Output Power	25kW	30kW	36kW	40kW	50kW
Rated AC Voltage	400 V				
AC Voltage Range	±15%				
Grid Type	3W+N+PE				
Rated Frequency	50 Hz / 60 Hz				
Power Factor	0.99/ -1 ~ +1				
THDi	≤3%				
DC Ratio	＜0.5% Ipn				
General					
Max. Round Trip Efficiency	87%				
Cycle Life	≥ 5,500 cycles				
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*2,030 mm				
Weight	1,000 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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