All-in-one Air-cooled ESS Cabinet

ECO-E100WX

The all-in-one air-cooled ESS cabinet integrates long-life battery, efficient balancing BMS, high-performance PCS, active safety system, smart distribution and HVAC into one cabinet, enabling long-term operation with safety, stability and reliability. Through AC side parallel connection, it achieves agile deployment of ESS power station with flexible capacity expansion.

1P fast charge /discharge rate.

Support DC-DC modular expansion to achieve PV access.

Support hybrid inverter(optional) to achieve integration of PV and ESS.

Small-scale C&I ESS scenario

Transformer dynamic expansion, frequency regulation and peak shaving

EV fast charging/super charging station

Microgrid with PV-plus ESS

Specifications

DC Side	
Cell Type	LFP 120Ah
Battery System	1P264S
Rated Energy	101kWh
Rated Voltage	844.8V
Voltage Range	739.2V~950.4V

AC Side	
Rated Power	100kW
Max. Power	110kW
Nominal Voltage	400Vac/3P+N+PE
Nominal Frequency	50Hz/60Hz
THDi	≤3%
DC Ratio	<0.5%Ipn
Power Factor	-1 lagging~1 leading

General	
Efficiency	≥89%
Charge/Discharge Rate	1P
DoD	95% (25±2℃)
Cycle Life	≥5000 cycles
Ingress Rating	IP55
Cooling	Forced air cooling
Operating Temperature	-25℃~55℃
Humidity	0~95%RH, non-condensing
Altitude	≤2,000m (derating above 2,000m)
Dimensions (W*D*H)	1,250*1,200*2,150 (mm)
Weight	2,000kg
Fire Safety	Aerosol
Connectivity	Ethernet /RS485
Compliance	UN38.3, IEC62477, IEC61000, IEC62619, IEC63056, UL9540A, EN50549