All-in-one Air-cooled ESS Cabinet

ECO-E215WS

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.

Economical and Efficient
Conversion efficiency over 90%, DoD over 95%.

Safe & Reliable
IP55 protection level, optimized ventilation design, cells temperature difference ≤6℃.

Compact
1.6m² footprint only, easy transportation & fast installation.

Self-developed
Self-developed PACK, PCS, BMS and EMS with good product compatibility.

Flexible Expansion
Modular design, simplified parallel expansion, fast expansion.

Smart O&M
Diversified O&M access, both on APP & Cloud.

Specifications

DC Side

Cell Type	LFP 280Ah
PACK	17.92kWh/1P20S
Battery System	215kWh/1P240S
Voltage Range	672~864Vdc
Rated Voltage	768Vdc

AC Side

Rated Power	50kW/100kW
Max. Power	55kW/110kW
THDi	≤3%
DC Ratio	＜0.5%Ipn
Nominal Voltage	400Vac/3P+N+PE
Power Factor	-1 lagging~1 leading
Nominal Frequency	50Hz/60Hz

General

Efficiency	≥90%
Charge/Discharge Rate	≤0.25P/0.5P
DoD	95% (25±2℃)
Cycle Life	≥8,000 cycles
Switching Time	<100ms
Connectivity	Ethernet/RS485
Ingress Rating	IP55
Cooling	Forced air cooling
Operating Temperature	-25℃~55℃
Humidity	0-95%RH, non-condensing
Noise	≤80dB
Altitude	≤2,000m (derating above 2,000m)
Fire Safety	Aerosol
Dimensions (W*D*H)	1,250*1,300*2,400 (mm)
Weight	2,630kg
Compliance	UN38.3, IEC62477, IEC61000, IEC62619, IEC63056, UL9540A, EN50549