

All-in-one Air-cooled ESS Cabinet

ECO-E215WS

Brief

The all-in-one air-cooled ESS cabinet integrates long-life battery, efficient bidirectional-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.



Features



Economical and Efficient

Conversion efficiency over 90%,
DoD over 95%.



Safe & Reliable

IP55 protection level, optimized ventilation design,
cells temperature difference within 5°C.



Compact

1.6m² footprint only,
easy transportation & fast installation.



Flexible Expansion

Modular design, simplified parallel expansion,
fast expansion.



Self-developed

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



Smart O&M

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

Specifications

DC Part	
Cell Type	LFP 3.2V/280Ah
PACK	17.92kWh/1P20S
Battery System	215kWh/1P240S
Voltage Range	672~864Vdc
Rated Voltage	768Vdc
AC Part	
Rated Power	100kW
Max. Power	110kW (60s)
THDi	< 3%
DC Ratio	< 0.5% pn
Nominal Voltage	400Vac
Power Factor	-1 lagging~1 leading
Nominal Frequency	50/60 Hz
General	
Efficiency	≥ 90%
Charge/Discharge Rate	≤ 0.5P
DoD	95%
Cycle Life	≥ 8,000 times
Switching Time	< 100ms
Connectivity	Ethernet /RS485
Ingress Rating	IP55
Cooling	Forced Air Cooling
Operating Temperature	-25℃~55℃
Humidity	0-95%RH, non-condensing
Noise	≤ 75dB
Altitude	≤ 2,000m (derating above 2,000m)
Fire Safety	Aerosol + Active Warning
Dimensions (W*D*H)	1,250*1,300*2,400 (mm)
Weight	2,500kg
Compliance	UN38.3, IEC61619, UL1973, UL9540 and CE-EMC