

All-in-one Air-cooled Energy Storage Cabinet

ECO-E215WS

Product Introduction

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.



Product Features



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



Safe & Reliable
IP55 protection level, optimized ventilation design,
cells temperature difference within 5.



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 Battery Parameters

Battery Cell Type	LFP
Battery Pack Configuration	17.92kWh/1P20S
Battery System Configuration	215kWh/1P240S
Battery Voltage Range	600~876V DC
System Rated Voltage	768V DC

AC Parameters

Rated Power	100kW
Maximum Power	110kW (60s)
THDi	< 3%
DC Ratio	< 0.5%I _{pn}
Nominal Voltage	400 AC
Power Factor	-0.98~0.98
Nominal Frequency	50Hz/60 Hz

System Parameters

Conversion Efficiency	≥ 89%
Charge/Discharge Rate	≤ 0.5P
Discharge Depth	95%DOD
Number of Cycles	≥ 8,000 times(25±2 C)
Charge/Discharge Switching Time	< 100ms
Communication Interface	Ethernet /RS485
Protection Level	IP55
Cooling Method	Forced Air Cooling
Operating Temperature	-25 °C~55 °C
Relative Humidity	0-95%RH, non-condensing
Noise	< 75dB
Altitude	≤ 2,000m (derating for usage above 2,000m)
Fire Suppression System	Aerosol + Active Warning
Dimensions (W*D*H)	1,250*1,300*2,400 (mm)
Weight	2,500kg
Compliance Standards	UN38.3, IEC62619, UL1973, UL9540 and CE-EMC

