

# All-in-one Air-cooled Energy Storage Cabinet

ECO-E100WX

## Product Introduction

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.



## Product Features



### Economical and Efficient

Conversion efficiency of above 89%,  
battery discharge depth greater than 95%.



### Safe and Reliable

IP55 protection level, reasonable air duct design,  
battery cell temperature difference within 5°C.



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



1P fast charge /discharge rate



### In-house Development

In house developed PACK, PCS, BMS  
and EMS systems ensure optimum product compatibility



Support DC-DC modular expansion to  
achieve PV access.



### Convenient Operation and Maintenance

Manual, automatic or intelligent operation capabilities.  
Maintenance management functions.  
includes APP and remote cloud platform and offline modes.

# Specifications

## DC Battery Parameters

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

## AC Parameters

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

## System Parameters

Efficiency	≤ 89%
Charge/Discharge Rate	1P
DoD	95% (25±2°C)
Cycle Life	≥ 5000 cycles
Ingress Rating	IP55
Cooling	Forced air cooling
Operating Temperature	-25°C~55°C
Humidity	0~95%RH, non-condensing
Altitude	≤ 2,000m (derating above 2,000m)
Dimensions (W*D*H)	1,250*1,200*2,250 (mm)
Weight	2,000kg
Fire Safety	Aerosol
Connectivity	Ethernet /RS485
Compliance	UN38.3, IEC62619, UL1973, UL9540, CE-EMC

