

All-in-one Air-cooled ESS Cabinet

ECO-E241WP-2A

Brief

The ECO-E241WP-2A integrates a long-life battery system, high-performance PCS, efficient balancing BMS, active safety systems, smart distribution, and HVAC into a single cabinet, ensuring long-term operation with superior safety, stability, and reliability. Through AC-side parallel connections, it enables agile deployment of ESS power with flexible capacity expansion.



Features



Economical and Efficient

RTE up to 87%,
DoD up to 100%.



Safe & Reliable

IP55 protection level, optimized ventilation design,
cells temperature difference $\leq 6^{\circ}\text{C}$.



Compact

1.8m² footprint only,
easy transportation & fast installation.



Long Cycle Life

Over 8,000 times cycle life,
excellent performance of battery system.



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 / 314 Ah
Pack Configuration	24.1 kWh / 1P24S
System Configuration	241 kWh / 1P240S
Rated DC Voltage	768 V
DC Voltage Range	672 ~ 864 V
Max. Charge/Discharge Rate	0.5 P
Max. Depth of Discharge	100% (25 $\pm$ 2 $^{\circ}\text{C}$)
AC Side	
Rated Output Power	125 kW
Rated AC Voltage	400 V
AC Voltage Range	$\pm 15\%$
Grid Type	3W+N+PE
Rated Frequency	50 Hz / 60 Hz
Power Factor	0.99/ -1 ~ +1
THDi	$\leq 3\%$
DC Ratio	$< 0.5\%$ Ipn
General	
Max. Round Trip Efficiency	87%
Cycle Life	$\geq 8,000$ cycles
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol
Ingress Rating	IP55
Cooling	Air cooling
Operating Temperature	-25 $^{\circ}\text{C}$ ~55 $^{\circ}\text{C}$ (Derating after 45 $^{\circ}\text{C}$)
Anticorrosion Rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Noise	≤ 75 dB
Altitude	3000m (Derating above 2000m)
Dimensions (W*D*H)	1,250*1,450*2,250 mm
Weight	2,670 kg
Safety/EMC	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4
Grid code	EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11