

ESS Cabinet

Commercial Energy Storage System

AIRPAL



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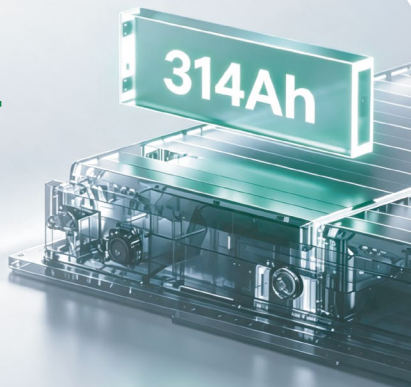
Commercial Energy Storage System

AirPal ESS Cabinet

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.

**LiFePO4**

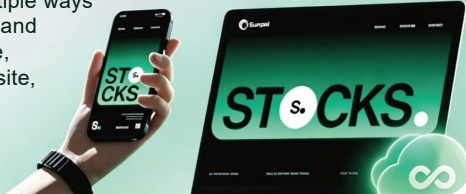
LFP314Ah battery cell system integration, leading cost advantage, 3S fusion

**Space Utilization**

1.8m² footprint only, easy transportation & fast installation.

**Easy O&M**

Support multiple ways of operation and maintenance, including onsite, cloud.

**Warranty**

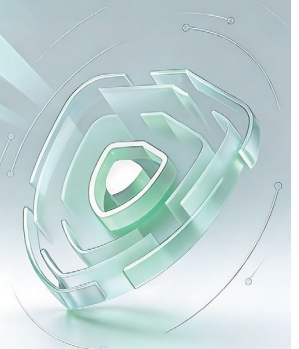
Core components come with 10-year warranty. Modular design supports parallel connection for easy system expansion.

**Expandability**

Modular design, simplified parallel expansion, fast expansion.

**Safe & Reliable**

IP55-rated protection. Optimized airflow design keeps cell temperature differences around 5°C.



Model	ECO-E241WP-2A
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 ± 2℃)
AC Side	
Rated Output Power	125 kW
Rated AC Voltage	400 V
AC Voltage Range	±15%
Grid Type	3W+N+PE
Rated Frequency	50Hz/60Hz
Power Factor	0.99/ -1 ~ +1
THDi	≤3%
DC Ratio	<0.5%I _{pn}
General	
Max. Round Trip Efficiency	87%
Cycle Life	≥ 8,000 cycles
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol
Ingress Rating	IP55
Cooling	Air cooling
Operating Temperature	-25℃ ~55℃ (Derating after 45℃)
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



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