Sunpal

V 2.0 Commercial
Energy Storage System

Hybrid ESS Cabinet

Commercial Energy Storage System

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ECO-B241WP-2H

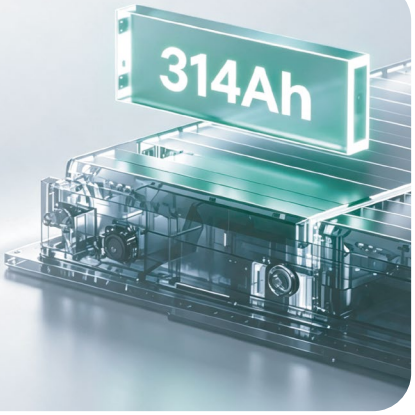
Commercial Energy Storage System

AirPal Hybrid ESS Cabinet

ALL IN ONE AIR-COOLED ESS CABINET, ECO-B241WP-2H is Sunpal's compact PV-plus ESS solution, built on its expertise in ESS integration and digital monitoring. With an all-in-one design, it integrates lithium battery ESS, hybrid inverter, HVAC, FSS, BCQ and more. It features a compact structure, easy installation, flexible capacity expansion, and supports self-consumption, peak shaving, and backup power modes.

LiFePO4

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

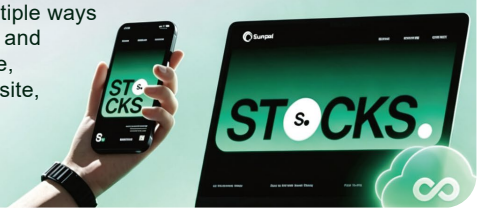


Space Utilization

1.8m² footprint, larger capacity per cabinet, saving space and site cost.

Easy O&M

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



Warranty

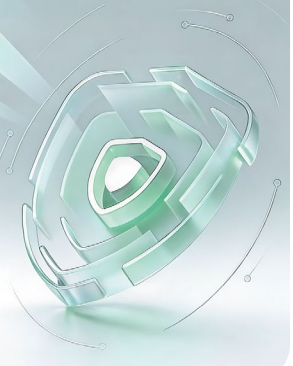
Core components come with 10-year warranty. Modular design supports parallel connection for easy system expansion.

Expandable

Easy modular design supports parallelconnection for convenient systemexpansion.

Safe & Reliable

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



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ECO-B241WP-2H

Model	ECO-B241WP-2H				
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℃)				
Cycle Life	≥ 8,000 cycles				
AC Side					
Rated Output Power	75kW	80kW	99.9kW	100kW	125kW
Rated AC Voltage	400 V				
AC Voltage Range	±15%				
Grid Type	3W+N+PE				
Rated Frequency	50Hz/60Hz				
Power Factor	0.99/-0.8 ~ +0.8				
THDi	≤3%				
DC Ratio	＜0.5%Ipn				
General					
Max. Round Trip Efficiency	90%				
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)				
Altitude	3000m (Derating above 2000m)				
Dimensions (W*D*H)	1,250*1,450*2,250 mm				
Weight	2670 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				
PV Input					
Max.input power	150kW	160kW	200kW	200kW	250kW
PV Voltage Range	150V~950V				
MPPT	10				
MAX. Input Current	42A*10				

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