

Hybrid **ESS** Cabinet

Commercial Energy Storage System

AIRPAI



Tell: +86 551 6586 5992

Web: Sunpalgroup.com

Add: No. 398 Ganquan Road, Hefei, Anhui, China



Commercial Energy Storage System

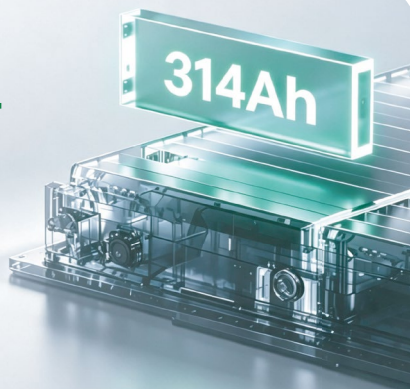
AirPal Hybrid ESS Cabinet

Sunpal Eco-B100WP-2H/Eco-B120WP-2H air-cooled all-in-one ESS cabinets are compact PV energy storage solutions. Integrated with batteries, inverters, thermal control, fire protection and BMS, they enable easy installation, scalable capacity, and support self-consumption, peak shaving and backup power supply.



LiFePO4

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



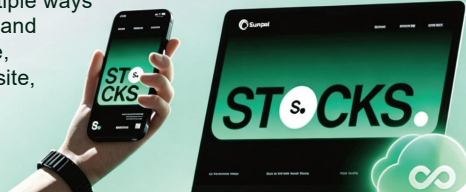
PV pluggable

Supports seamless direct PV access with advanced all-in-one integration for simplified system deployment.



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.



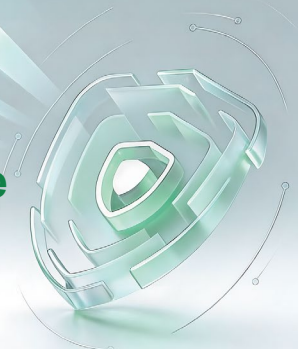
Expandable

Easy modular design supports parallel connection for convenient system expansion.



Safe & Reliable

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



Model	ESS-B100WP-2H		ESS-B120WP-2H	
DC Side				
Cell Type	LFP / 314 Ah			
Pack Configuration	20.096 kWh / 1P20S			
System Configuration	100.48 kWh / 1P100S		120.576 kWh / 1P120S	
Rated DC Voltage	320V		384V	
DC Voltage Range	280~360 V		336~432 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	30 kW	40 kW	50 kW	
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%I _{pn}			
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)	800*1,200*2,100 mm			
Weight	1,200 kg			
Safety/EMC	UN38.3,IEC62619,IEC63056,IEC62477-1,IEC61000-6-2/4			
Grid code	EN50549-1/-10,EN50549-2/-10,G99,VDE4105,NRS097,C10/1			
PV Input				
Max.input power	60 kW	80 kW	100 kW	
PV Voltage Range	150~850V	150~850V	150~850V	
MPPT	3	4	4	
MAX. Input Current	40A*3	40A*4	40A*4	



Sunpal Power Co., Ltd.

Add: No. 398 Ganquan Road, Hefei, Anhui, China.

Web: www.sunpalpower.com

Email: info@sunpalpower.com

Tel: +86 551 6586 5992



Wechat



Web