Sunpal

V 2.0 Commercial
Energy Storage System

ESS Cabinet

Commercial Energy Storage System

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ECO-E101WX

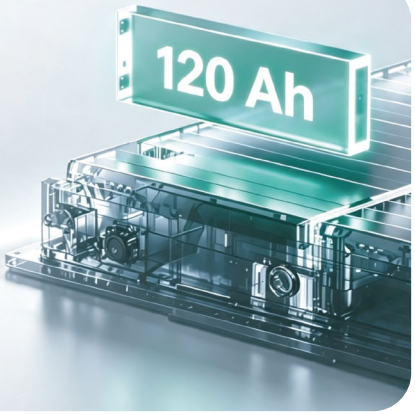
Commercial Energy Storage System

AirPal ESS Cabinet

ALL IN ONE AIR-COOLED ESS CABINET, ECO-E101WX is Sunpal's compact, integrated energy storage solution, built on its expertise in ESS integration and digital monitoring. Its all-in-one design integrates a lithium battery system, PCS, an air-cooling thermal management system, FSS, BCQ and other key components into a single cabinet. Featuring a compact footprint, easy installation and flexible capacity expansion, it supports self-consumption, peak shaving, load shifting and backup power applications.

LiFePO4

LFP120Ah battery cell system integration, leading cost advantage, 3S fusion



High-rate

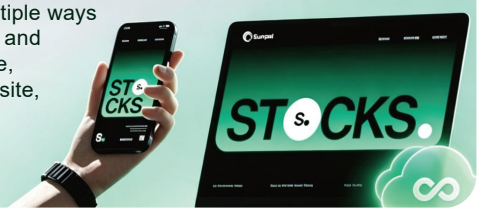
1P fast charge /discharge rate.

Warranty

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

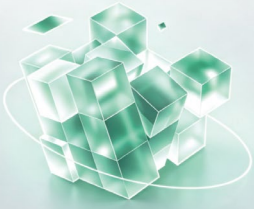
Easy O&M

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



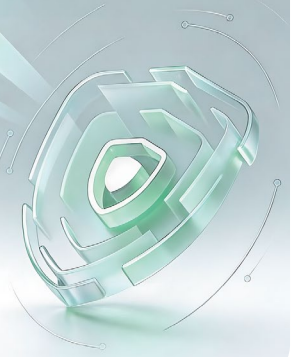
Expandability

Modular design, simplified parallel expansion, fast expansion.



Safe & Reliable

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



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ECO–E101WX

Model	ECO-E101WX
DC Side	
Cell Type	LFP / 120 Ah
Pack Configuration	9.2 kWh / 1P24S
System Configuration	101 kWh / 1P264S
Rated DC Voltage	844.8 V
DC Voltage Range	739.2 ~ 950.4 V
Max. Charge/Discharge Rate	1 P
Max. Depth of Discharge	100% (25 ± 25℃)
Cycle Life	≥ 5,500 cycles
AC Side	
Rated Output Power	100 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%Ipn
General	
Max. Round Trip Efficiency	87%
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*1,200*2,150 mm
Weight	2,000 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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