Sunpal

V 2.0 Commercial
Energy Storage System

ESS Cabinet

Commercial Energy Storage System

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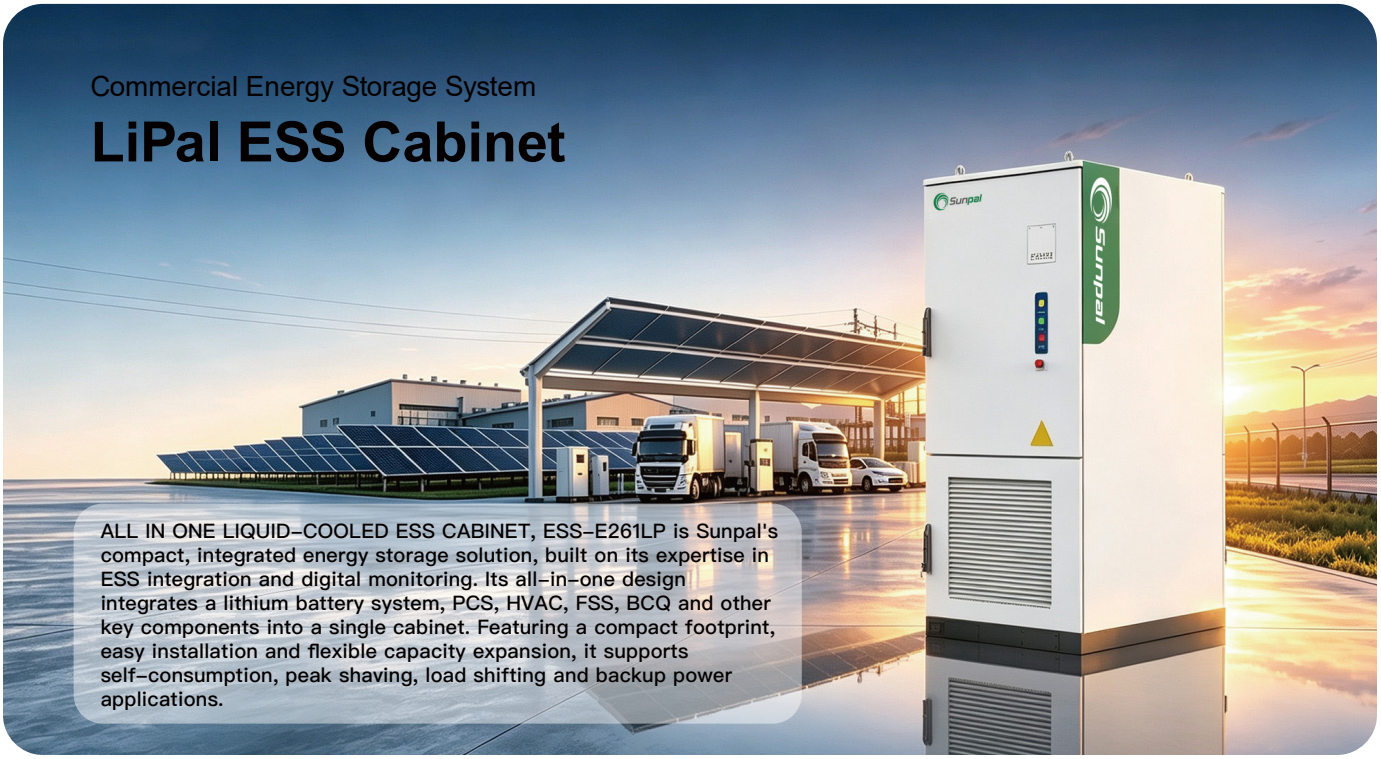
ESS-E261LP

Commercial Energy Storage System

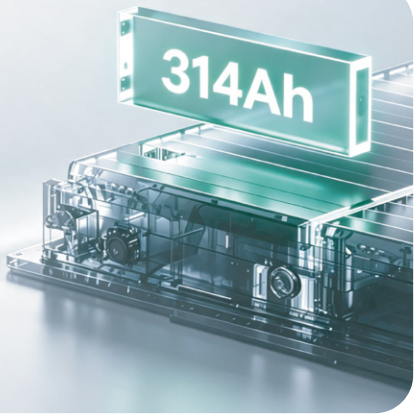
LiPal ESS Cabinet



ALL IN ONE LIQUID-COOLED ESS CABINET, ESS-E261LP 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, HVAC, 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

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



High Integration

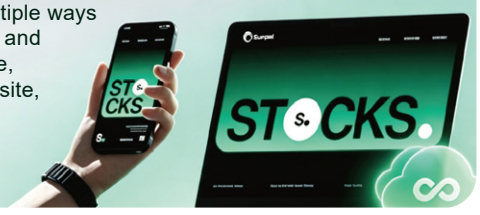
261kWh energy in one cabinet with remarkable endurance.

Ultimate Safety

In-PACK fire warning and protection with aerosol, prevent heat diffusion and runaway.

Easy O&M

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



Long Cycle Life

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

Flexible Expansion

Modular design, simplified parallel expansion.

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ESS-E261LP

Model	ESS-E261LP
DC Side	
Cell Type	LFP / 314Ah
Pack Configuration	52.2kWh/1P52S
System Configuration	261 kWh/1P260S
Rated DC Voltage	832V
DC Voltage Range	728~936V
Max. Charge/Discharge Rate	0.5P
Max. Depth of Discharge	100% (25 + 2°C)
Cycle Life	≥ 8,000 cycles
AC Side	
Rated Output Power	125kW
Rated AC Voltage	400V
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	90%
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol
Ingress Rating	IP55
Cooling	Liquid cooling+Forced air cooling
Operating Temperature	-25°C ~55°C (Derating after 45°C)
Anticorrosion Rating	C4 (C5 optional)
Humidity	0~95% RH (non-condensing)
Noise	≤ 75dB
Altitude	3000m (Derating above 2000m)
Dimensions (W*D*H)	1,050*1,350*2,400mm
Weight	2,600kg
Safety/EMC	UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4, UL9540A
Grid code	EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11, CEI0-21, CEI0-16

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