

ESS Container

Commercial Energy Storage System

CUBEPAL



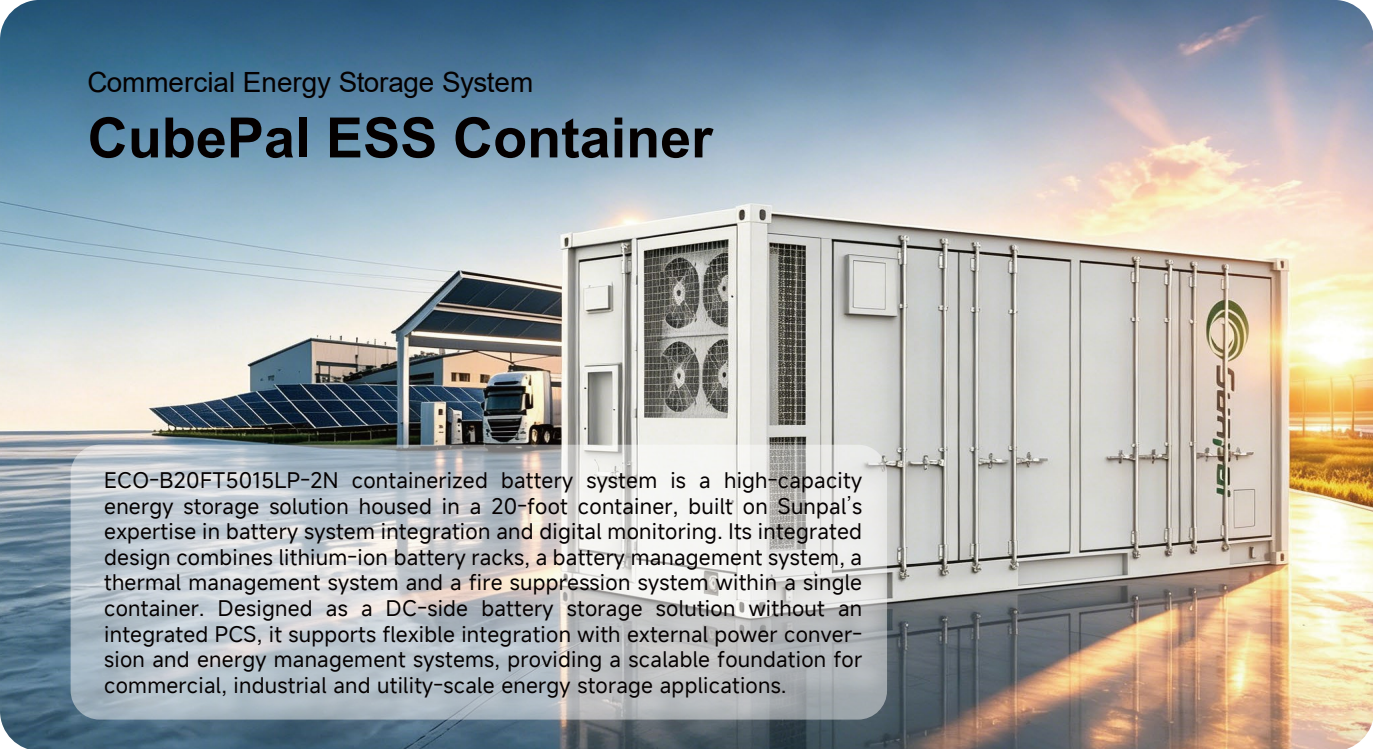
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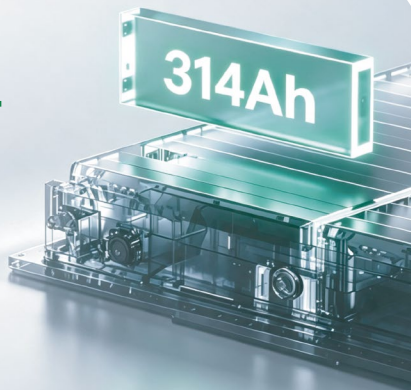
Commercial Energy Storage System

CubePal ESS Container

ECO-B20FT5015LP-2N containerized battery system is a high-capacity energy storage solution housed in a 20-foot container, built on Sunpal's expertise in battery system integration and digital monitoring. Its integrated design combines lithium-ion battery racks, a battery management system, a thermal management system and a fire suppression system within a single container. Designed as a DC-side battery storage solution without an integrated PCS, it supports flexible integration with external power conversion and energy management systems, providing a scalable foundation for commercial, industrial and utility-scale energy storage applications.

LiFePO₄

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

**Higher Energy Density**

The 20-ft liquid-cooled energy storage container offers a maximum capacity of 5.015MWh, delivering higher energy density and reducing overall costs.

Easy O&M

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

**Higher Protection**

IP55 enclosure (PACK IP65), C5 corrosion resistance, and wide-temp design ensure robust environmental resistance.

**Longer Service Life**

Enhanced cell temperature consistency extends battery life, increases safety, and improves return on investment.

**Thermal Management**

Liquid cooling keeps cell temp delta < 3 °C, enhancing voltage consistency and performance.



Model	ECO-B20FT5015LP-2N
Item	
Cell Type	LFP / 314 Ah
Pack Configuration	104.5kWh / 1P104S
System Configuration	5.015MWh / 12P416S
Rated DC Voltage	1331.2 V
DC Voltage Range	1165 ~ 1498 V
Max. Charge/Discharge Rate	0.5 P
Max. Depth of Discharge	100% (25 ± 2℃)
Cycle Life	≥ 8,000 cycles
Fire Suppression System	Aerosol system+Water spray system
Ingress Rating	IP55
Cooling	Liquid cooling+Forced air cooling
Operating Temperature	-25 ℃ ~55℃ (Derating after 45℃)
System Efficiency	C4 (C5 optional)
Charge/Discharge Rate	0~95% RH (non-condensing)
DoD	3000m
Cycle Life	6,058*2,438*2,896 mm
Communication	41.8t
Ingress Rating	UN3536, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4





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