Sunpal

V 2.0 Commercial
Energy Storage System

ESS Container

Commercial Energy Storage System

CUBEPAL

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ECO-E20FT2170LP-2

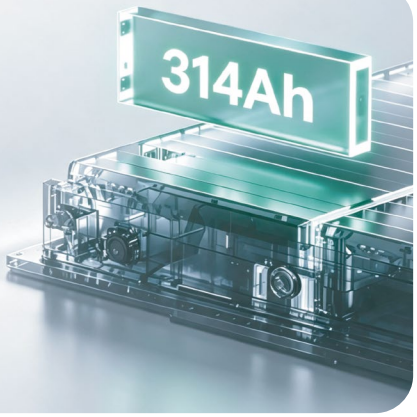
Commercial Energy Storage System

CubePal ESS Container

ECO-E20FT2170LP-2 is Sunpal's containerized energy storage system, integrated solution housed in a 20-foot container. Its all-in-one design integrates a lithium-ion battery system, PCS, battery management system, thermal management system, fire suppression system and other key components into a single container. Featuring a compact footprint, easy installation and flexible deployment, it supports self-consumption, peak shaving, load shifting and backup power applications, providing a versatile energy storage solution for commercial and industrial users.

LiFePO4

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

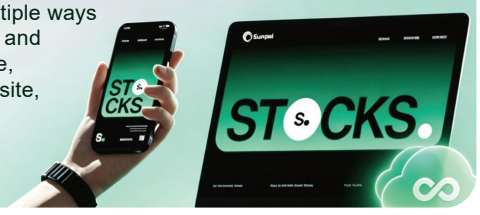


All-in-One

Highly integrated 3S system, cooling system, and fire protection system, delivering greater capacity within a smaller footprint.

Easy O&M

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



Hybrid Cooling System

Liquid-cooled battery + air-cooled PCS provide dual assurance for system efficiency.

String-Based Solution

Each battery cluster managed independently enhances system reliability and stability.

Standard 20ft Container

Pre-tested and pre-installed before delivery, enabling easy transportation, simple commissioning, and shorterlead times.

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ECO-E20FT2170LP-2

Model	ECO-E20FT2170LP-2
DC Side	
Cell Type	LFP / 314 Ah
Pack Configuration	48.23kWh/1P48S
System Configuration	2170.3kWh/9P240S
Voltage Range	768Vdc
PACK Ingress Rating	672-864Vdc
AC Side	
Rated Power	1125kW(125kW*9)
Max. Power	1237kW
THDi	≤3%
DC Ratio	<0.5%Ipn
Nominal Voltage	400Vac/3P+N+PE
Power Factor	-1 lagging ~ 1 leading
Nominal Frequency	50Hz/60Hz
General	
System Efficiency	≥88%
Charge/Discharge Rate	0.5P
DoD	95% (25±2℃)
Cycle Life	8000cycles@±25℃,95%DOD 0.5P
Communication	Ethernet /RS485
Ingress Rating	IP55
Cooling System	Liquid Cooled + Forced Air Cooled
Operating Temperature	-25 ℃ ~55℃
Humidity	5~95%RH, non-condensing
Noise	≤80dB
Altitude	≤2,000m (derating above 2,000m)
Fire Suppression System	Aerosol system (pack level and container level) , water spray system
Dimensions (W*D*H)	6058*2438*2591 (mm)
Weight	25t
Compliance	UN38 .3, IEC62477-1, CE/EMC, IEC62619, IEC63056, UL9540A, IEC62933, EN50549

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