

ESS Container

Commercial Energy Storage System

CUBE PAL



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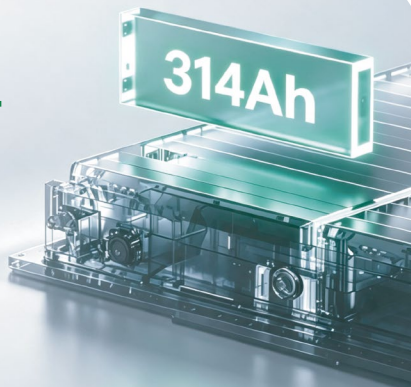
Commercial Energy Storage System

CubePal ESS Container

ECO-E10FT1044LP-2 is Sunpal's compact containerized energy storage system, integrated solution housed in a 10-foot container. Its all-in-one design integrates a lithium-ion battery system, PCS, 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

**Easy O&M**

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

**String-Based Solution**

Each battery cluster managed independently enhances system reliability and stability.

**All-in-One**

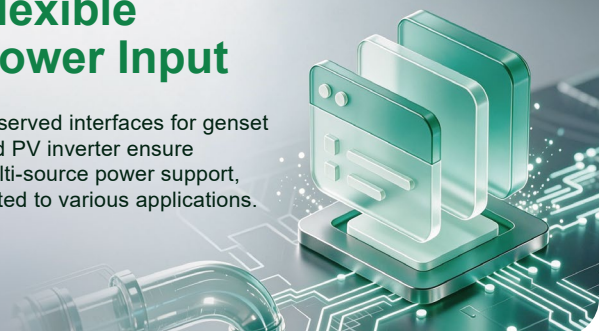
Highly integrated 3S system, cooling system, and fire protection system, delivering greater capacity within a smaller footprint.

**Seamless Transfer**

The system is equipped with an integrated STS, enabling seamless on-grid and o-grid switching within 20ms.

**Flexible Power Input**

Reserved interfaces for genset and PV inverter ensure multi-source power support, suited to various applications.



Model	ECO-E10FT1044LP-2
DC Side	
Cell Type	LFP / 314 Ah
Pack Configuration	52.2 kWh / 1P52S
System Configuration	1044 kWh / 4P260S
Rated DC Voltage	832 V
DC Voltage Range	728 ~ 936 V
Max. Charge/Discharge Rate	0.5 P
Max. Depth of Discharge	100% (25 ± 2℃)
AC Side	
Rated Output Power	500 kW
Max. Apparent Power	550 kVA
Rated AC Voltage	400 V
AC Voltage Range	±15%
Grid Type	3W+N+PE
Rated Frequency	50Hz/60Hz
On/off-grid Switching Time	<20 ms
Power Factor	0.99/ -1 ~ +1
THDi	≤3%
DC Ratio	<0.5%I _{pn}
BackupSide	
Max. PV Inverter Input Current	800 A
Max. Diesel Generator Input Current	800 A
Max. Backup Load Port Current	800 A
Recommended Max. Backup Load Power*	350 kW (70% of Rated Output Power)
General	
Cycle Life	≥ 8,000 cycles
Communication	Modbus TCP/IP
Fire Suppression System	Aerosol system(pack level and container level), water spray system
Ingress Rating	IP54
Cooling	Liquid cooling+Forced air cooling
Operating Temperature	-25℃ ~55℃ (Derating after 45℃)
Anticorrosion Rating	C4 (C5 optional)
Humidity	5~95% RH (non-condensing)
Noise	≤ 80 dB
Altitude	3000m (Derating above 2000m)
Dimensions (W*D*H)	2991*2438*2591 mm
Weight	14 t
Grid code	EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11



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