

# 125 kW/261 kWh & 62.5 kW/261 kWh Commercial Energy Storage for North America



**CPS ES-125kW/261kWh-US**  
**CPS ES-62.5kW/261kWh-US**

CPS is excited to announce a fully-integrated turnkey commercial energy storage system (ESS) solution to the North American market. The new all-in-one CPS ESS solution integrates the proven bi-directional energy storage inverter with state-of-the-art LFP energy storage modules. Compact design and parallel capabilities minimize square footage requirements, allowing for higher capacity in a smaller footprint. Rack-level management reduces mismatch losses between parallel cabinets and enables cabinet augmentation and phased replacement.

## Key Features

- Standard two-hour or four-hour durations available
- Intelligent cell monitoring with multi-level electrical protection in the system
- High charge and discharge capacity over its lifecycle
- Localized, streamlined maintenance with factory pre-installation and testing, reducing on-site workload
- Pack-level fire suppression system design, multiple electrical interlocking measures, and rapid fault protection
- Advanced liquid cooling battery packs minimize cell temperature difference, increasing lifespan
- Features a long battery cycle life and high system efficiency



Model Name	CPS ES-62.5kW/261kWh-US	CPS ES-125kW/261kWh-US
<b>DC Parameters</b>		
Battery cell	LFP 314 Ah	
Battery capacity	261 kWh	
Module configuration	1P52S	
Rack configuration	1P260S	
Rated voltage	832 V	
Operating voltage range	750-936 V	
Maximum charge/discharge rate	0.5 C	
Overcurrent protection	Yes	
<b>AC Parameters</b>		
Rated AC output power	62.5 kW	125 kW
Rated output voltage	480 Vac	
Grid voltage range	422-528 Vac	
Maximum continuous AC current	75 A	150 A
Nominal grid frequency	60 Hz	
Grid frequency range	55-65 Hz	
Adjustable reactive power	0.8 leading to 0.8 lagging	
AC current TRD	< 3% (IEEE 519 compliant)	
DC current injection	< 0.5%	
Maximum efficiency (PCS)	98.10%	
CEC efficiency (PCS)	97.50%	
AC connection	3 phase, 3 wire	
<b>Equipment Specifications</b>		
Dimensions (W × H × D)	39.37 × 96.46 × 55.31 in (1000 × 2450 × 1405 mm)	
Weight	5802 lb (2632 kg)	5919 lb (2685 kg)
Cooling method	PCS: air cooling Batteries: liquid cooling	
Operating temperature range	-13°F to 131°F, derating at 113°F (-25°C to 55°C, derating at 45°C)	
Operating humidity	0-95%, non-condensing	
Operating altitude	≤ 9842.5 ft, derating from 6561.7 ft (≤ 3000 m, derating from 2000 m)	
Ingress protection degree	IP54	
Anti-corrosion level	C3	
Fire suppression	NFPA 68 compliant (flammable gas detection, temperature sensing, smoke detection, aerosol spray)	
Shockproof rating	Zone 4	
Lifting provisions	Forklift slots and lifting rings	
<b>Communication &amp; Certifications</b>		
Communication interface	Ethernet / CAN	
Communication protocol	Modbus-TCP	
System certifications	UL 9540	
PCS inverter certifications	UL 1741-CRD, UL 1741-SA/SB Ed.3, CSIP, CSA-22.2 NO.107.1-16, IEEE 1547, FCC	
Battery compliance	UL 1973, UL 9540A, NFPA 855, NFPA 68, UN 38.3	
<b>Warranty</b>		
Standard	3 years	
Extended terms	5 and 10 years	