

# 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 |
|--------------------------------|--------------------------------------------------------------------------------------------------|------------------------|
| DC Parameters                  |                                                                                                  |                        |
| 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                                                                                              |                        |
| AC Parameters                  |                                                                                                  |                        |
| PCS inverter model             | CPS ECB62.5KTL-M/US-480                                                                          | CPS ECB125KTL-M/US-480 |
| 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                                                                                  |                        |
| Equipment Specifications       |                                                                                                  |                        |
| 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<br>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                                                                 |                        |
| Communication & Certifications |                                                                                                  |                        |
| 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                                                    |                        |
| Warranty                       |                                                                                                  |                        |
| Standard                       | 3 years                                                                                          |                        |
| Extended terms                 | 5 and 10 years                                                                                   |                        |