

CPS ESS-125kW/268kW Energy Storage for North America

New



Commercial Energy Storage System

Chint Power Systems (CPS) commercial energy storage system (ESS) introduces its next generation turn-key solution. This system begins with a building block of 125kW/268kWh and can be easily expanded. CPS power conversion technology, partnered with EMS software, all in a UL9540a certified (pending) product.

The 125kW/268kWh package is ideally suited for commercial energy storage applications including:

- Solar + Storage
- Zero Export Control
- Demand Charge Management
- Back-up Power
- Demand Management
- Micro-grid Applications

Key Features

- Robust 10 Year Warranty with CPS
- Assembled in the USA
- Project Cash Flow Analysis
- Active Control & Management
- Pre-integrated & Tested
- Partnered EMS Solutions from Pason Power and ELM Fieldsight
- High efficiency (98% max) PCS
- Outdoor Rated
- Complete Climate Control
- ½ Day Installation
- Commissioning & Startup Services
- 2 and 4hr Duration Solutions



Model Name	CPS ESS-125kW/268kWh
Electrical Specifications	
Rated AC Output Power	125kVA
Maximum AC Output Power	137.5kVA
Rated Grid Voltage	480Vac
Grid Voltage Range	422-528Vac
Rated Grid Frequency	60Hz
Grid Frequency Range	57-63Hz
Continuous AC Power - Charge	83.3kW/104kVA
Continuous AC Power - Discharge	125kW
Maximum Continuous AC Current	165A
Grid Connection Type	3 Phase/PE/N (neutral optional)
Total Harmonic Distortion	<3%
Power Factor	>.99 (+/-0.8 adjustable)
Maximum Efficiency (Inverter)	98.0%
CEC Efficiency (Inverter)	97.5%
AC Connection	3 Phase, 3 Wire
Environment & Certifications	
Enclosure	NEMA 3S/IP54
Inverter	UL 1741-SA
Batteries	UL 1973
System	UL 9540a (pending)
Equipment Specifications	
Lifting Provisions	Fork Lift Slots
Corrosion Resistance	1000 Salt Hour Spray
Handles	Stainless Steel Lockable
Temperature Range	-25°C to 50°C (derating from 45°C)
Operating Humidity	0-95%, non-condensing
Operating Altitude	<13123.4Ft/4000m (derating from 6561.7Ft/2000m)
Operation Parameters	
Demand Charge Management	√
Self-Consumption/Non-Export	√
Load Shifting	√
Back-Up Mode (micro grid)	√
Key System Components	
Bi-directional Storage Inverter	√
High Voltage LFP Battery	√
DC Disconnect (load rated)	√
AC Disconnect (load rated)	√
Climate Control System	√
Integrated EMS	√
Battery Information	
Battery Capacity	268kWh
Rated Voltage	960V
Maximum Charge/Discharge	½C
Operating Voltage Range	840-1000V
Overcurrent Protection	Yes
Battery Chemistry	LFP