

### Container Energy Storage Solution

The CAES system is a turnkey, high-capacity 20-foot container designed for rapid deployment and scalable energy storage. Engineered for high energy density and fast dispatch, it features integrated liquid thermal management, aerosol fire suppression, dry pipe connection, passive deflagration venting, and active ventilation. Ideal for industrial and utility-scale applications requiring reliable, resilient, and easily integrated storage.



#### PRODUCT SPECIFICATIONS

CAES Configuration	3.4H-CAES	3.8H-CAES	4.2H-CAES	4.6H-CAES	5.0H-CAES
Usable Energy Capacity	3.34 MWh	3.76 MWh	4.18 MWh	4.6 MWh	5.01 MWh
Continuous Power	1.67 MW	1.88 MW	2.08 MW	2.29 MW	2.50 MW
Nominal Voltage	1331.2 V				
Voltage (Max)	1476.8 V				
Voltage (Min)	1164.8 V				
Max. Continuous Current	1,544 A	1,737 A	1,930 A	2,123 A	2,316 A
Cells/Rack	416				
Racks	8	9	10	11	12
Operating Temperature	-30°C to 55°C (-22°F to 131°F)				

#### MECHANICAL SPECIFICATIONS

Product Dimensions (WxDxH)	6.1 × 2.5 × 2.9 m (20 × 8 × 9.5 ft)				
Weight	32,640 kgs (71,959 lbs)	35,600 kg (78,485 lbs)	38,319 kg (84,481 lbs)	41,199 kg (90,830 lbs)	43,999 kg (97,003 lbs)
Material and Finish	Steel - Corrosion Resistant Powder Coat				
Thermal Mgmt System	Integrated Liquid Chiller/PTC System				
Cooling Method	Liquid Cooling				
Ingress Rating	Outdoor IP55 (NEMA 3R)				
Communication	CAN, RS485, TCP/IP/Fiber Optic				

#### SAFETY AND STANDARDS

Testing and Certifications	UN 38.3, UL1973, UL9540A, UL9540, IEC62619, IEC62933, IEC61000 (NFPA 68 & 69, LSFT)
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#### WARRANTY

Base Performance Warranty	10 years
Warranty Extension	10 years, 15 years, 20 years

#### FEATURES

##### HIGH ENERGY DENSITY

- 20-ft container with advanced liquid thermal management.

##### EXCEPTIONAL EFFICIENCY

- Up to 96% round-trip efficiency (RTE) for DC charge and discharge.

##### SCALABLE

- Configurable to meet power and capacity requirements and is simple to expand.

##### EASY INSTALLATION

- Scalable, customizable, and compatible with third-party SCADA and EMS systems.

##### RAPID DEPLOYMENT

- Preassembled, plug-and-play design for fast installation.

##### ENHANCED SAFETY

- Includes heat, smoke and gas detection, aerosol fire suppression, and active deflagration ventilation.

##### NFPA855

- System is 9540A tested to the current standards and compliant with NFPA 855 Standards.

##### CUSTOMIZABLE

- Flexible design configuration with doors and thermal management systems positioned to suit installation requirements.

#### APPLICATIONS

##### Industrial Self-Consumption (Arbitrage).

Store energy while demand is low or when renewable output is high and discharge it during peak demand.

**Grid Stabilization.** Integrate renewable by delivering energy rapidly to balance supply and demand and stabilize frequency.

**Microgrid & Off-Grid Support:** Enable micro-grids and remote off-grid systems with reliable energy storage.

**EV Charging Support:** Expand EV charging infrastructure by storing energy on-site without upgrading the utility service connection.