

## Container Energy Storage Solution

The CAES 5M Containerized Energy Storage Solution is a rapidly deployable and scalable 20-foot container solution engineered for high-energy density, high-capacity energy storage and dispatch. It features exceptional round-trip efficiency, integrated fire suppression, and advanced thermal management.



### 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.

### PRODUCT SPECIFICATIONS

Model	CAES 5.0M
Battery Chemistry	Lithium Iron Phosphate (LiFePO <sub>4</sub> )
Energy Options	5.0MWh
Configuration	1P416S x 12
Continuous Power (Max)	2.5MW (417kW x 6)
Rated Output Voltage	1,040-1,500Vdc
Cell Capacity	314Ah
Maximum Discharge Current	157A x 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	42,000kg (92,400lbs)
Material and Finish	Steel - Corrosion Resistant Powder Coat
Thermal Management System (TMS)	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

Certifications	UL1973, UL9540A, IEC62619, IEC62933, IEC61000
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### WARRANTY

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

### 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 renewables by delivering energy rapidly to balance supply and demand and stabilize frequency.

**Microgrid & Off-Grid Support:** Enable microgrids 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.