

Fluence Edgestack™

Connection-ready commercial and industrial energy storage product designed to support 500+ kW applications with rapid deployment and minimum footprint.

FLUENCE®
A Siemens and AES Company



About Edgestack

Edgestack is a complete, connection-ready system used by C&I customers to reduce monthly electricity costs.

Edgestack discharges when needed to flatten a facility's energy load profile and significantly reduce demand charges from the utility. The fully-integrated system is available in 500 kW building blocks that can be configured to meet the needs of individual facilities and aggregated across fleets or customer locations without time-consuming redesigns. Edgestack is built using our 6th generation technology stack, which incorporates more than 3 years of design and deployment experience.

Features



Connection Ready: Edgestack comes fully integrated with all the batteries, inverters, safety features, cooling, and software controls needed. Edgestack is quiet, emissions-free, occupies a small footprint, and can be sited at nearly any C&I location.



Fleet Optimized: Configure Edgestack to meet your requirements then deploy across a fleet of facilities or customers. Edgestack's modular system architecture drives efficiencies in project design and permitting for fast delivery and rapid installation, while consistency across project locations simplifies training, operations, and maintenance.



Total System Safety: Edgestack comes equipped with comprehensive safety features throughout the integrated technology stack. The factory-built design brings consistent quality control to your storage system for the highest level of safety.

Fluence Cube
is your building
block for better
energy storage.

The Fluence Cube is a factory built, modular storage building block for safe, cost-effective systems configurable with the latest component technologies, delivering:

- Cost-effective systems with maximum quality control
- Fast procurement and contracting process
- Simple system design, engineering, and permitting
- Rapid delivery, construction, and commissioning
- Latest safety features and storage components



Edgestack™ Specifications

Edgestack System

Rated AC Power (50°C)	500 kW – 4 MW	Availability	>97.0%
Discharge Duration	1 – 4 hours	Altitude	De-rated over 1,000 meters
Grid Frequency	50Hz and 60Hz	Seismic Rating	Seismic options available
Reactive Power	Four-quadrant control, 0.9 leading to 0.9 lagging at rated power (reactive capability available over full real power range)*	System Response Time	Max capacity change in 1,000 ms
		Standard Temperature Range	-30°C to 45°C **

Fluence Cube

Cube Dimensions (H x W x D)

Long Duration: 2,549 x 2,578 x 2,160 mm
Short Duration: 2,549 x 2,578 x 2,257 mm

Cube Weight (total) lb/kg

Long Duration: 18,078 / 8,200
Short Duration: 18,850 / 8,550

Enclosure Rating

NEMA Type 3R

IP Rating

IP55

Cooling

Air or liquid cooled

Battery Chemistry

Advanced lithium ion sealed cells

Safety Features

Fast Stop, fire detection and suppression system (solid aerosol), gas detection (carbon monoxide), deflagration panels, lockable disconnect switch, open door sensor, gas spring damper, sliding door lock

Installation

Forkliftable from all 4 sides. Crane compatible and includes vertical stabilization.

Fluence OS

Fully-integrated operating system for comprehensive control, asset management, and system visibility.

Operation Modes

Automatic Resource Control, Manual Dispatch, Idle, Disconnect, Reset

System KPIs

Real and reactive power dispatch, state of charge, cell voltage and temperature, auxiliary system details, core and node status, fire system and F-Stop status, and more

External Control Interface

SCADA and EMS integration available via common protocols including DNP3 and Native Modbus TCP/IP

Market Dispatch Applications

AGC, real and reactive power dispatch, SOC management

Fluence IQ

The Fluence IQ Bidding Application automates wholesale market participation to maximize asset value in the NEM and CAISO markets.

Forecasting

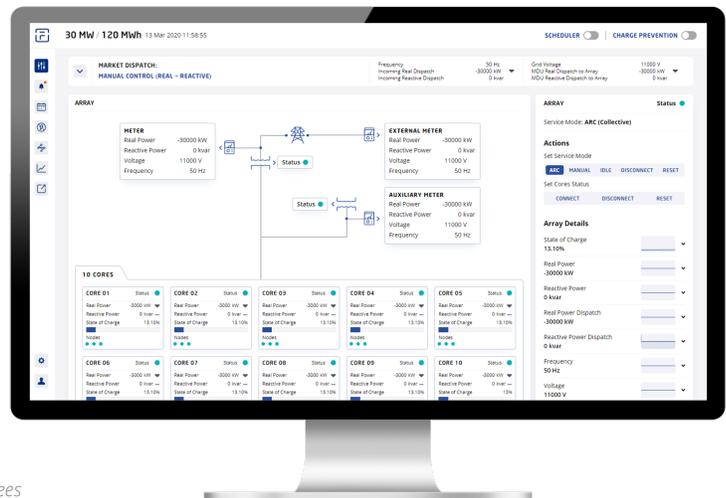
Analyze thousands of variables to predict future market prices

Optimization

Automatically generate optimal bids for wind, solar, and storage assets

Bidding

Incorporate organizational risk tolerance levels into bidding strategy



* Additional reactive capability upon request

**Can vary depending on cooling system, low temperature kits required below -10 degrees



About Fluence™

Fluence (Nasdaq: FLNC) is a global market leader in energy storage products and services, and digital applications for renewables and storage. With a presence in 30 global markets, Fluence provides an ecosystem of offerings to drive the clean energy transition, including modular, scalable energy storage products, comprehensive service offerings, and the Fluence IQ Platform, which delivers AI-enabled digital applications for managing and optimizing renewables and storage from any provider. The company is transforming the way we power our world by helping customers create more resilient and sustainable electric grids.