Distributed Energy Storage System

L2000 Modular Container

Discover state-of-the-art distributed energy storage for utilities and large commercial customers. The L2000 Modular Container Distributed Energy Storage System from Johnson Controls draws on our world-class battery technology, facilities expertise and intelligent controls to handle multiple, concurrent applications. This scalable system can provide hours of high-energy output within a proven modular design, drawing on our decades of experience in modular data centers and chiller plants.

The result: an efficient, cost-effective solution that can be integrated into the energy control system of a utility, regional transmission organization or facility, at the lowest total lifecycle cost. As a global multi-industrial leader, we have the manufacturing excellence, innovation focus and customer insight to deliver leading-edge distributed energy storage products. Learn how the L2000 modular system brings new opportunities to regulate, store and distribute power.

Multiple Application Support

The system can be programmed to perform multiple, concurrent applications including demand management, transmission and distribution deferral, capacity, voltage support, renewable integration, frequency regulation and other ancillary services.

Multiple Power Options

The system output can be configured based upon customer needs from 500kW up to 2MW.

Modular Capacity Options

System capacity can be configured based upon customer needs in 500kWh increments.

Utility and Building Compatible

The system integrates seamlessly into the utility or building energy management system using standard protocols.

Remote System Monitoring

Provides local and remote real-time monitoring, diagnostics and control of the energy storage system.

Separable Power Conversion

For customers with their own power conversion system, the battery units can be ordered separately.

Modular Footprint

Batteries are housed in custom 20ft, 40ft or 45ft containers to ISO shipping container dimensions.

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Product Specifications

Minimum Storage Capacity	500 kWh
Storage Capacity Increment	500 kWh
Power Rating	Dependent upon PCS
Applications	Transmission and Distribution Deferral, Capacity, Frequency Regulation, Voltage Support, Renewable Integration and Other Ancillary Services
DC Voltage	856 VDC (nominal)
AC Voltage	Dependent upon PCS
Seismic	Zone 4 (California)
Utility Interface	DNP3
Building Interface	Johnson Controls *Metasys*®, ASHRAE BACnet
Monitoring	Local and Remote
Fire Alarm Detection	Potter
Fire Suppression	Novec™ Aerosol
HVAC	York, size dependent on application
Network Security	SSL/X509
Battery Cells	High-Energy Density Prismatic
Expected Life	Up to 20 years*
Dimensions (W x D x H)	8ft (2.438m) x 20ft (6.95m) x 9ft 6in (2.895m) 8ft (2.438m) x 40ft (12.19m) x 9ft 6in (2.895m) 8ft (2.438m) x 45ft (13.716m) x 9ft 6in (2.895m)
Weight (lbs)	Dependent on configuration

*Actual may vary—dependent on environmental conditions and application. More details are available on our website: www.johnsoncontrols.com/DES.

Ordering Information

Power Conditioning Systems	
PCS-500	500 kW Inverter
PCS-750	750 kW Inverter
PCS-1000	1 MW Inverter
PCS-2000	2 MW Inverter
Battery Units	
Configurable – 500 kWh in 20ft container, up to 4.8 MWh in 45ft container	
Remote Monitoring Units	
RMU-CELL	4G LTE remote monitoring interface
RMU-WIFI	Wireless Internet monitoring interface
RMU-ETH	1G Ethernet interface

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