

Battery Energy Storage System (BESS)

Integrated Storage Solution

The BESS can provide services to all areas of grid supply including generation, transmission and distribution.



1.0 MWh Containerized BESS

Technical Specifications

The BESS uses lithium ion batteries and bi-directional inverter in a climate-controlled enclosure to provide a modular solution for on-grid and off-grid storage applications.

Range of Capabilities

- Power Rating from 30 kW to 1000 kW
- Capacities from 91 kWh DC to 4428 kWh DC
- Durations of 1 hour to 6+ hour available
- Single or Multiple Units for Commercial, Industrial, and Utility-Scale

BESS Includes

- Bi-directional Inverters from EPC Power, Dynapower, CET
- Batteries with Integrated BMS from KORE Power
- Industrial Outdoor Packaging with NVAC
- Integrated Controls and Remote Monitoring
- Fire Suppression
- 10-year Hardware and Capacity Warranty

Sizing Options

- Standard Packaged and Customized BESS sizes available

Advantages

- Available and guaranteed deliverable to keep your project on schedule
- Proven Lithium-ion chemistry provide long life in high cycle applications up to 365 cycles per year
- 10-year top-of-class warranty allows bankable project development

BESS Technical Specifications

Applications

- On-grid: Peak shaving and energy arbitrage, for BESS-only or paired with Solar PV or Microturbines
- Off-grid: Backup/Resiliency and Multi-DER Microgrid Controls

Inverters

- 480V/60Hz or 400V/50 Hz standard
- UL/CSA and CE Certified
- Local interconnections standards approved
- UL 1741 SA, CEI-16, VDE-4105, BDEW, AS 4777-2
- Inverter Suppliers: EPC Power, Dynapower, CET America
- Grid Connected and Standalone/Grid-forming Options

Batteries

- KORE Power Mark I Modules using NMC chemistry
- Extensively tested to meet UL 9540A Safety Standard
- Capacity per Rack: 110.7 kWh, 110 Ah (0.3 C Rate)
- Voltage: 1006.4 V nominal; Range 762 – 1170 V
- Rack Dimensions: (W x D x H) 520 x 655 x 2260 mm
- Rack Weight: 1200 kg
- Integrated module, rack, and system-level BMS

Packaging

- Sealed NEMA 3R Package with HVAC
- Either a Cabinet, Container, or Building depending on size

Integrated Controls and Remote Monitoring

- Application-tailored controls available for all on-grid and off-grid use cases

Environmental Specifications

- NEMA 3R Enclosure Standard
- - 4 to 122 °F, -20 to 50 °C ambient rating
- 0 to 6550 ft, 0 to 2000 m altitude rating

KORE Power Module

