



BOX-BE™ FEATURES

BOX-BE™ (pronounced “Box-Be”—a BOX of Bipolar Energy; is a modular Battery Energy Storage System) -- another breakthrough invention by Advanced Battery Concepts LLC. This system is powered by our Advanced BiPolar EverGreenSeal™ technology and is designed to meet the energy needs today and future generations. The design of BOX-BE allows for easy and safe scalability while providing high power and energy for long-duration discharges. Its simple parallel connections enable seamless field installation. BOX-BE supports seamless expansion of energy storage capacity and charging duration with a self-contained, self-regulated DC battery pack. Economically and sustainably superior to all other electrochemical storage solutions and most other energy storage systems.

REUSABLE = GREEN

BOX-BE -- a fully green solution for end-of-life energy storage - available now! Our BOX-BE is the first ever system designed to use EverGreenSeal batteries which are engineered to be disassembled and 100% of key component and materials are recovered. Disassembly and recovery of parts consumes little energy and virtually no waste, making BOX-BE the ideal green energy storage technology for carbon footprint reduction!

Highly Scalable

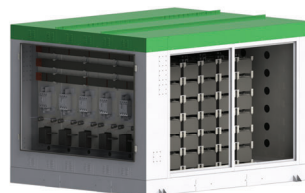
BOX-BE costs scale directly with energy expansion. Longer discharge capability, at given power, occurs by simply adding additional BOX-BE units. Energy delivery is constant and uninterrupted as units are expanded or replaced.

Easy / Simple / Safe

BOX-BE plug and play design allows for easy and simple connection to adjacent units. Connect up to 8 BOX-BE's in parallel to seamlessly integrate energy and power through a common Power Conversion System (PCS). The non-flammable chemistry is incapable of thermal self-ignition, assuring safety and peace of mind over the lifetime of the system.

Energy Delivery Reliability

Most importantly, BOX-BE arrives with an energy delivery promise. BOX-BE is monitored wirelessly for consistent performance. Requiring only minimal field maintenance, the system will deliver energy reliably - unfailingly! -- against today's and tomorrow's requirements.





BOX-BE™ TECHNICAL SPECIFICATIONS

BOX-BE™ PERFORMANCE DATA

NOMINAL OPERATING VOLTAGE (VDC)	1200
RATED ENERGY (kWh)	300
RATED DISCHARGE CURRENT (A)	1500
CYCLE LIFE	2500@300 kWh discharge/cycle
NOMINAL AMBIENT OPERATING TEMPERATURE RANGE	-18C to 45C
AMBIENT OPERATING TEMPERATURE LIMITS	-40C to 60C
DIMENSIONS (H X W X D, meters)	2.02 x 2.41 x 2.98
WEIGHT (kg)	12,250
THERMAL MANAGEMENT SYSTEM	Convection / Forced Air
ACTIVE ENVIRONMENTAL CONTROLS	Optional on request
CODES & COMPLIANCE	UL 1973, UL 9540, UL 9540A
BATTERY MANAGEMENT SYSTEM CONTROLS	Proprietary ABC
ANALYTICS/OPTIMIZATION/DATA STORAGE	Proprietary ABC
COMMUNICATION INTERFACE	Mod Bus TCP

APPLICATIONS

Microgrid Deployment

Use BOX-BE as an energy storage component of a microgrid with off-grid generation and supply capabilities

Renewable Energy Deployment

Combine BOX-BE with Wind and/or Solar generation sources to firm, stabilize and optimize energy

Backup Power

Support for grid resiliency to supply needed power when grid supply is down or constrained

Demand Response

Respond to utility signals when energy demand is high to earn money

Peak Shaving

Demand charge management during peak pricing intervals to reduce cost

Load Shifting

Energy utilization optimization between durations of high and low energy costs