

# Gridbox 10GB

## Microgrid System



### PRODUCT OVERVIEW

Gridbox 10GB Battery Energy Storage System (BESS) is a high-energy-density product specifically designed for Utility, Commercial & Industrial applications. The 10GB BESS Solution includes Battery Modules, bi-directional inverter, isolation transformer, fire detection/suppression system, thermal management system, overcurrent protection, and our Gridbox Control System.

The purpose-built enclosure's environmental control system increases service life of the battery system. Intelligent battery management technology is leveraged to improve the safety of the system and its lifespan.

### KEY FEATURES

Inverter Battery Combo: 9.8 x 8 x 8.5 Feet

- LiFePO4 chemistry, stable discharge platform, excellent safety performance, long cycle life.
- Three-level battery management system, ensures overcharge, over-discharge, over-voltage and other functional protection with fault classification processing.
- Modular design, support flexible expansion and front access for maintenance.
- Utility approved inverters to streamline utility interconnection.
- Equipped with Gridbox controller (GBC) to achieve 24/7 remote monitoring of the entire energy storage system.
- Supports 200kWDC PV solar DC coupled.



### PRODUCT MODEL DEFINITION



### CONFIGURATION EXAMPLE



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ITEM	10GB-0100-0129	10GB-0100-0193
Battery Chemistry	Lithium Iron Phosphate (LFP)	
Cell Life Cycle	80% Retention with 5,000 Cycles @ 1° C to 25° C	
Cell Spec	3.2V / 90Ah	
Energy Capacity	129 kWh	193 kWh
Rated Voltage	358.4V	
Voltage Range	313.6V ~ 397.6V	

CDATA	
Rated AC Power	100kW / kVA
Maximum AC Power	110kW / kVA
Rated Grid Voltage	480V
Continuous Current	144A
Output THDi	≤3%
AC PF	Listed: 0.8 ~ 1 Leading or Lagging (Controllable). Actual: 0.1 ~ 1 Leading or Lagging (Controllable)
Grid Frequency Range	50/60 ±2.5Hz
Isolation Method	3 Phase 4 Wire Transformer

GENERAL DATA	
Dimensions w/o Clearances	9.8' L x 8' W x 8.5' H
Total Weight	22,046 LBS
Degree of Protection	IP54
Operating Temperature Range	-4° ~ 104° F / -20° ~ 40° C
Relative Humidity	0 ~ 95% (Non-Condensing)
Max Working Altitude	9,842 Feet / 3,000 Meters
Cooling Concept	Heat-Pump HVAC
Communication Interfaces	RS485, Ethernet, GPRS
Certifications	UL1741SA, UL9540, UL9540A Tested
Communication Protocols	DNP3.0 Modbus, IEC 103, IEC 104, WEB APIs, IEC 61850