



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 our Lithion Battery Modules, bi-directional inverter, isolation transformer, thermal management system, overcurrent protection, and our Gridbox Control System.

An environmental control system is also built in the container, which increases service life of the battery system. Intelligent battery management technology is leveraged to improve the safety of the system and its lifespan.

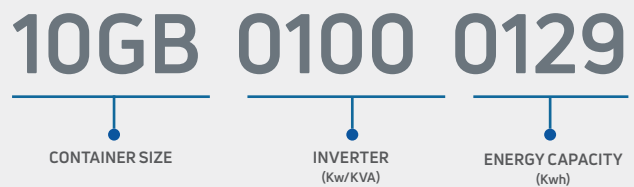
KEY FEATURES

Inverter Battery Combo: 9.8 x 8 x 8.5 Feet

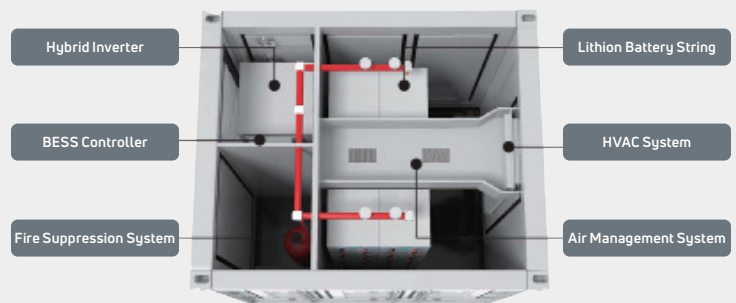
- Modular design
- Supports integration of PVsolar, BESS, and Microgrid applications both grid parallel and grid island
- Lithion Battery Modules, bi-directional inverter, isolation transformer, thermal management system, AC main breaker and our Gridbox Control System
- Equipped with Gridbox controller (GBC) to achieve 24/7 monitoring of the BESS



PRODUCT MODEL DEFINITION



CONFIGURATION EXAMPLE





10GB

TECHNICAL SPECIFICATIONS

ITEM	10GB-0100-0129	10GB-0100-0193	10GB-0100-0258	10GB-0100-0322	10GB-0100-0366	10-0250-0430
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				3.2V / 280 Ah	
Energy Capacity	129 kWh	193 kWh	258 kWh	322 kWh	386 kWh	430 kWh
Rated Voltage	358.4V				768V	
Voltage Range	313.6V ~ 397.6V				672V ~ 850V	

C DATA		
Rated AC Power	110kW / kVA	250kW
Maximum AC Power	110kW / kVA	275kW
Rated Grid Voltage	480V	
Peak Current	144A	301A
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	2,2046 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 of DC Hatch	HVAC
Communication Interfaces	RS485, Ethernet, GPRS
Certifications	UL1714SA, UL9540, UL9540A Tested
Communication Protocols	DNP 3.0 Modbus, IEC 103, IEC 104, WEB APIs



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