



Blue Ion LX-HV GRID OPTIONAL™ Energy Solution



Energy from renewables like solar is variable, leaving people still tethered to the utility grid with limited options to disconnect. Blue Planet Energy tames energy to make clean power work on demand and brings new options to leave the grid behind. Our Blue Ion LX-HV is a premium GRID OPTIONAL™ energy solution that integrates the energy storage, system intelligence and site controls needed to be grid-free. Blue Ion LX-HV is flexible and can also work in conjunction with the grid or generators in order to optimize using them, providing you the widest range of energy options. Built in Chicago, Blue Ion LX-HV is ruggedized for use cases where energy is absolutely critical (emergency services/healthcare) or prohibitively high-cost (business continuity/utility rate structures).



GRID OPTIONAL™
Functions with or without
the Utility Grid



Fully Scalable
up to 2MW



Operating
Temperature Range:
-4°F to 113°F (-20°C to 45°C)



100% Usable
Capacity



21 Year Life
Expectancy
(8,000 Cycles)

- High voltage disconnect switch is externally accessible for emergency safety
- Lock and key cam latch for secure access only
- Rugged exterior of corrosion-resistant galvanized and stainless steel components plus durable, textured powder coat finish for protection against harsh conditions
- Pest resistant underside pan that is removable and sealable
- Structural fastener points to chassis for secure anchoring and mounting
- Adjustable height stainless feet to accommodate installation
- Integrated futuristic blue LED accent lighting

REMOVABLE SERVICE ENTRANCE
For safe serviceability

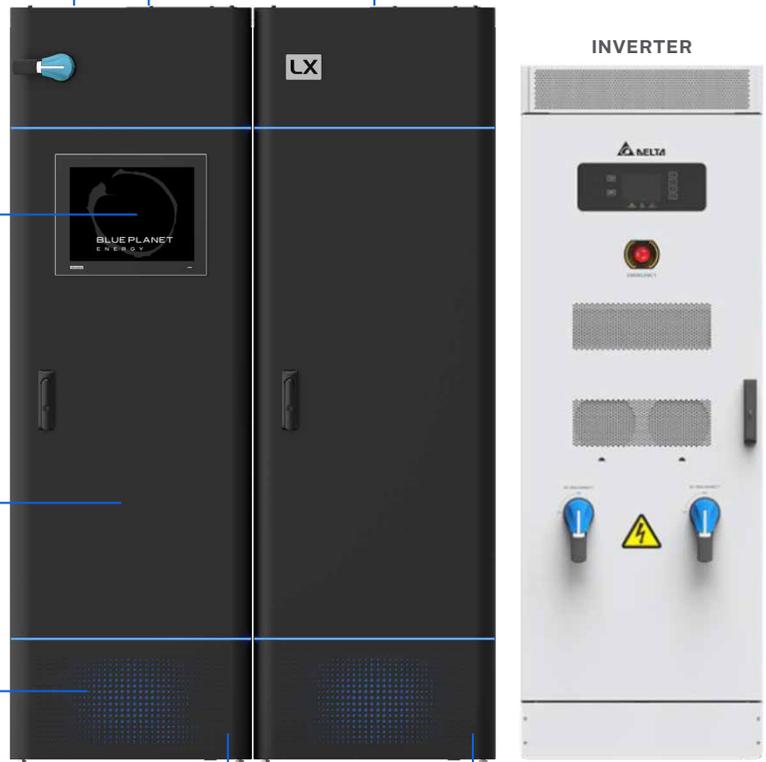
TUNABLE COOLING SYSTEM
Is adjustable for environmental conditions

INTEGRATED SITE CONTROLS
Via an industry-leading 15.6" touchscreen

FIRE-SAFE BATTERY CHEMISTRY
With additional system safeguards built in

ECO-FRIENDLY AIR FILTER
Is washable and reusable

INDUSTRY FIRST ZERO-DISPLACEMENT DOOR HINGE
Allows for easy serviceability without sacrificing energy density



ISO 9001: 2015
UL 9540 Certified
UL 1741SA Compliant

Model Number

Blue Ion LX-HV

GRID OPTIONAL™ Energy Solution

System Technical Specifications

SYSTEM SIZE	125kW/128kWh
EXPANDABLE	32kWh Increments
DIMENSIONS PER CABINET (H x W x D)	76 in x 24 in x 32 in (193.04 cm x 60.96 cm x 81.28 cm)
DIMENSIONS TOTAL (CABINET A + B, H x W x D)	76 in x 48 in x 32 in (193.04 cm x 121.92 cm x 81.28 cm)
WEIGHT	2,600 lb (1,179 kg)
MOUNTING	Adjustable Feet, Seismic Wall Mount and Floor Mount

Applications

OFF-GRID	Generation source agnostic, generator interface, load control, islanding capable, resiliency
GRID INTERCONNECTED	Microgrid with full grid interactivity and full off-grid capability, zero export, self consumption, tariff optimization, demand management, load shifting

Battery Specifications

STORAGE TEMPERATURE RANGE	-4°F to 113°F (-20°C to 45°C)
DISCHARGE TEMPERATURE RANGE	-4°F to 122°F (-20°C to 50°C)
CHARGE TEMPERATURE RANGE	32°F to 113°F (0°C to 45°C)
OPERATING AMBIENT HUMIDITY	10% RH to 90% RH
ENCLOSURE TYPE	Indoor (NEMA 1)
PERFORMANCE WARRANTY	15 Years or 8,000 Cycles to 70%* Remaining Capacity (100% DoD)
COOLING NOISE dB	65dB
C-RATE	1C
ALTITUDE LIMITATIONS	29,029 ft (8,848 m)
CHEMISTRY	Lithium Ferrous Phosphate

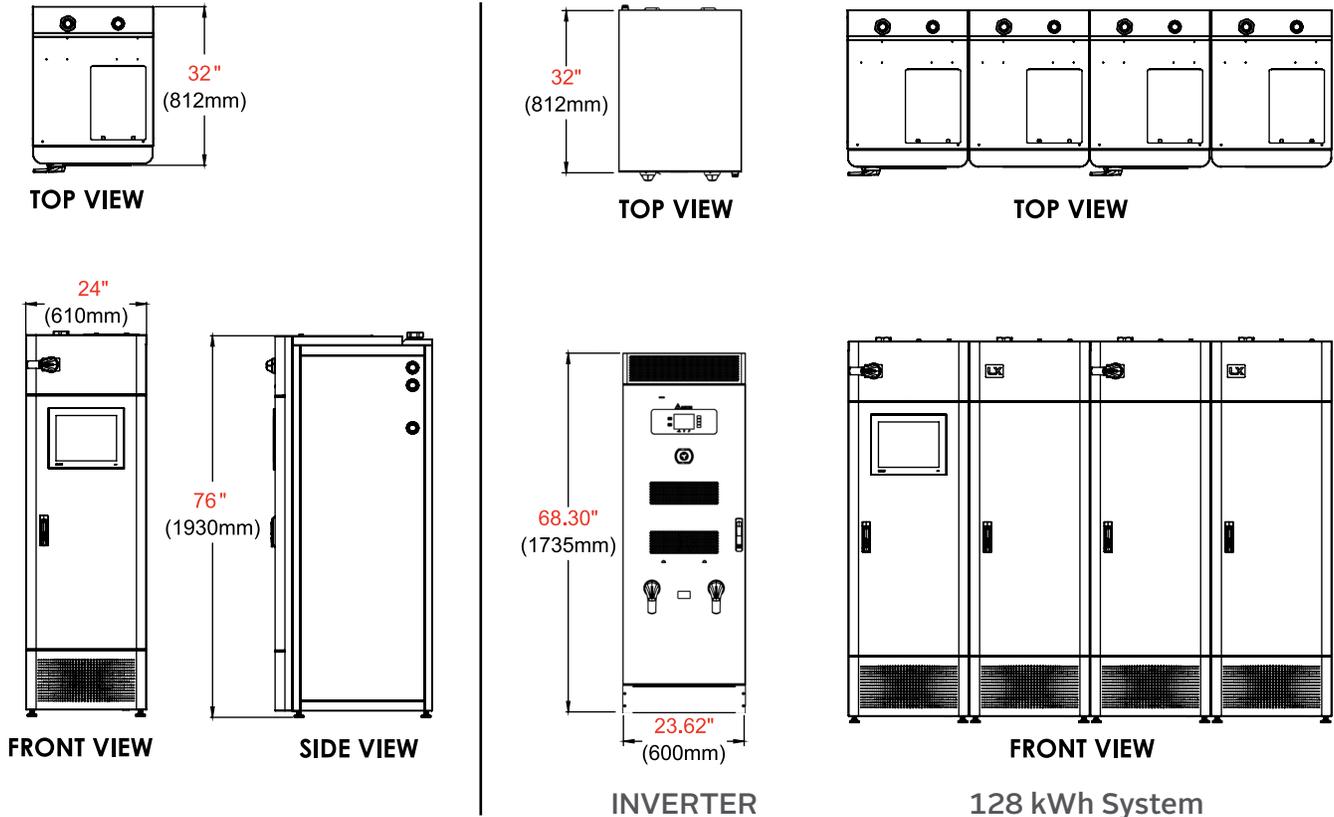
Inverter Specifications

EXPANDABLE IN 125KW INCREMENTS	Scalable up to 500kW in Parallel Configuration
ENCLOSURE NEMA RATING	NEMA 3R
ALTITUDE LIMITATIONS	16,404 ft (5,000 m) at Full Power
DIMENSIONS	23.6 in x 31.5 in x 69.5 in (59.94 cm x 80.01 cm x 176.53 cm)
KW / VOLTAGE	125kW / 480v 3 Phase
COOLING NOISE DB	<72dB @ 1 m (3.28 ft) at Rated Condition

Controller Specifications

DATA ACCESS	Cloud, Local Area Network and/or Screen on LX-HV
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All dimensions = inch (mm)



BLUE PLANET
ENERGY

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