



BLUE PLANET
ENERGY

Blue Ion HI

Premium Features to Power Your Future



Meet Blue Ion HI. Blue Planet Energy's most universal, premium low-voltage battery system for those who desire a flexible and superior energy storage experience. As a premium pairing for any inverter, the Blue Ion HI is inverter-friendly as well as generation source agnostic - effortlessly storing energy from a range of sources including but not limited to solar PV, the electrical grid, and generators. Installation options include flush bolted stacking both horizontally and vertically for a sleek look while doubling storage capacity within the same footprint. Like all deluxe Blue Planet Energy solutions, Blue Ion Technology delivers safety through a benign battery chemistry and an intelligent architecture, as well as an unmatched 15-year performance warranty. The reliability of a rugged and durable high-end enclosure system rounds out the five-star energy storage experience delivered through Blue Ion HI.



Grid Optional™
Functions with or without the Utility Grid



Easily Expandable
up to 448 kWh



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



100% Usable Capacity



15-Year Performance Warranty
(8,000 Cycles)

REMOVABLE ACCESS PANELS
For a flexible and easy installation/accessibility

RUGGED EXTERIOR
Designed with aerospace-grade aluminum, stainless steel, and durable matte black powder coat finish for long lasting protection

LOCK AND KEY CAM LATCH
For secure access only

BEST-IN-CLASS BATTERIES
Non-toxic and advanced technology for safety and dependability

REUSABLE AIR FILTER
Reduce dust ingress

HEIGHT ADJUSTABLE STAINLESS STEEL FEET
Increased safety and security on uneven surfaces

VENTILATION
New design improves circulation

GASKETED DOORS AND PANELS
Easily removable and pest-resistant

FUNCTION-FIRST DESIGN
Horizontal and vertical configuration allows for easy expansion and reduces system footprint

Example shows 3 enclosures in a stacked and side-by-side configuration

Electrical

USABLE CAPACITY	16 kWh
BMU POWER AT 45°C	8kW continuous
BMU CURRENT AT 45°C	160 Adc continuous, 200 Adc for 30 minutes 220 Adc for 5 minutes
NOMINAL SYSTEM VOLTAGE	48 Vdc
MAXIMUM SYSTEM VOLTAGE	56 Vdc
OVERCURRENT PROTECTION BREAKER	250 Adc
COMMUNICATIONS PROTOCOL	Modbus TCP/IP

Mechanical

DIMENSIONS (H X W X D)	38-39" in x 24 in x 31.5 in 97-99.1 cm x 61 cm x 80.1 cm <i>*Adjustable leg +0-1"</i>
WEIGHT	Enclosure - 216 lb (98kg) 8 kWh Solution - 454 lb (206 kg) 12 kWh Solution - 573 lb (260 kg) 16 kWh Solution - 692 lb (314 kg)
MOUNTING	Adjustable Feet, Wall Mount, and Floor Mount

Performance

CHEMISTRY	Lithium Ferrous Phosphate
DEPTH OF DISCHARGE	100%
PEAK ROUND-TRIP EFFICIENCY	98%
PERFORMANCE WARRANTY	15-years or 8,000 cycles at 100% depth of discharge
PRODUCT WARRANTY	10-years, includes BMU
COOLING NOISE dB	65dB
C-RATE*	0.5C
REMOTE MONITORING ¹	Pairs with Blue Planet Energy software and platform

^{*} Refer to warranty documentation
¹ Additional hardware required. Contact your sales representative.

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

Environmental

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)
MAXIMUM ALTITUDE	29,029 ft (8,848 m)

Compliance Information

CERTIFICATIONS	UL 9540, UL 9540A, UL 1642, UL 1973, UN 38.3, cETLus
EMISSIONS	FCC Part 15 Class B, ICES-003 Class B



Recommended Inverters²



² Recommended inverters have been successfully field tested.

All dimensions = inch (mm)

