

# BLUE ION<sup>®</sup> 2.0

## ENERGY STORAGE SYSTEM



# 15 YEAR PERFORMANCE WARRANTY

POWERED BY ALOHA

# Safe, Durable, Best-in-Class Energy Storage



Designed, assembled, and tested in Hawaii by Blue Planet Energy, Blue Ion is a best-in-class energy storage system that provides unparalleled safety, reliability, and performance. Our company, design process, and craftsmanship are guided by Aloha, a Hawaiian principle that encompasses love, patience, attention, kindness, respect, and a connection to nature.

Blue Ion is precisely engineered to offer simple, fast, and repeatable design and installation. We offer the safety of Lithium Ferrous Phosphate (LFP), the confidence of a 15-year warranty, the durability of 100% depth of discharge with no impact on cycle life, and the freedom to choose your preferred inverter brand. Every Blue Ion system you install is backed by the coolest and most experienced team in energy storage.

### SAFE

Fire-safe, non-toxic Lithium Ferrous Phosphate cells

Fail-safe system monitoring and protection

Listed to UL 9540, UL 1642, and UL 1973

### RELIABLE

15-year or 8,000 cycle at 100% depth of discharge warranty

Performance assurance via data capture and validation

Maintenance-free with no active cell cooling

### SCALABLE

Modular cabinet capacities of 8 kWh, 12 kWh, and 16 kWh

448 kWh maximum system capacity

Self-contained units eliminate exposed interconnect cabling

### POWERFUL

High-power 8 kW continuous Super BMU

10 kW (30 min.)  
11 kW (5 min.)  
17 kW (1 sec.)

Super BMU peak power

98% peak round-trip efficiency

### FLEXIBLE

Compatible with your preferred inverter/charger platform

Supports ac and dc coupled system configurations

Compatible with high-capacity 3-phase systems

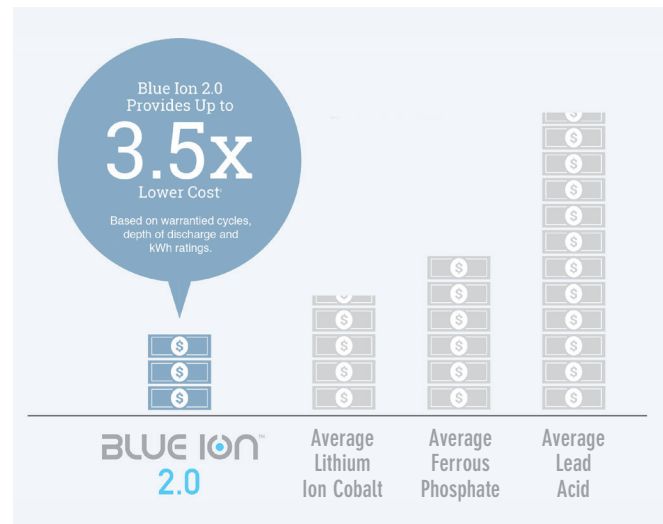
# Specifications

Model	Nominal capacity
BI2-08	8 kWh
BI2-12	12 kWh
BI2-16	16 kWh
Maximum system capacity	448 kWh
Super BMU power at 45°C (per cabinet)	8 kW continuous
Super BMU current at 45°C (per cabinet)	160 Adc continuous 200 Adc (30 minutes) 220 Adc (5 minutes)
Overcurrent protection breaker	250 Adc
Nominal system voltage	48 Vdc
Maximum system voltage	56 Vdc
Minimum system voltage	44 Vdc
Usable depth of discharge	100% at full power
Peak round-trip efficiency	98%
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
Maximum altitude	29,029 ft (8,848 m)
Weight (cabinet and individual battery modules packaged separately)	Cabinet: 126 lb (57 kg) Battery module: 59.5 lb (27 kg) 8 kWh unit total: 364 lb (165 kg) 12 kWh unit total: 483 lb (219 kg) 16 kWh unit total: 602 lb (273 kg)
Dimensions (H x W x D)	42.5 in x 23.75 in x 24 in (108 cm x 60.4 cm x 61 cm)
Enclosure	Indoor (NEMA 1)
Communications protocol	Modbus TCP/IP
Chemistry	Non-toxic Blue Ion Lithium Ferrous Phosphate (LFP)
Performance warranty	15 years or 8,000 cycles at 100% depth of discharge
Product warranty	10 years, includes Super BMU
Certifications	UL 9540 Energy Storage Systems, UL 1642 Lithium Ion Cell, UL 1973 Lithium Ion Battery Modules, IEC 62133, SBA S1101

System components (included)

Cabinet, battery modules, bus bars, comm cabling, dc disconnect, Super BMU, monitoring hardware, online system monitoring

# Cost of Ownership



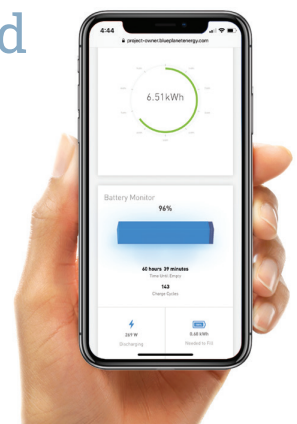
# Scalability



# Stay Connected

Sync up and monitor from anywhere you have an internet connection.

Monitor Blue Ion 2.0 using your smartphone, tablet, or computer.



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