

# SBE1000 | LFP | 1,152 – 1,728 kWh

## LITHIUM-ION BATTERY ENERGY STORAGE SYSTEM

**GENERAC** INDUSTRIAL  
ENERGY

### Power Rating:

250 kW / 500 kW / 1,000 kW

### Energy Rating:

1,152 – 1,728 kWh

### Enclosure Style:

Custom 20 ft



## Codes and Standards

Contact Generac for details.



UL 1642



UL 1973



UL 9540A



UL 1741 SB



UL 9540



CSA 22.2



UN 38.3



IEEE 1547



NFPA 855



NFPA 69



NFPA 68  
(select models)

## The Generac Solution

Energy management today means balancing a combination of carbon reduction, energy savings, and energy resilience goals. Generac's Stationary Battery Energy storage system (SBE) is our latest addition to a portfolio of products and technologies helping commercial and industrial customers to meet their current and future energy goals.

The SBE energy storage systems enable commercial and industrial customers to:

- Reduce peak demand charges and save on energy costs.
- Pair with on-site solar and lower both carbon footprint and energy costs.
- Provide site resilience during brownouts/power quality issues, back up critical loads during shorter duration blackouts, and pair with our line of gas and diesel generators for full facility resilience during long duration blackouts.
- Earn additional revenue by monetizing the asset to support broader grid resilience.

## BESS SPECIFICATIONS

Gen 1 Models	SBE-1198-250 250 kW	SBE-1198-500 500 kW	SBE-1198-1000 1,000 kW
Power			
Nameplate DC energy		1,198 kWh	
DC voltage range		874-1,123 VDC	
Nominal voltage		998.4 VDC	
AC connection		3-wire (3P3W)	
Nominal AC voltage		480 V	
Frequency		60 Hz	
Overload capacity		110%, 10 min 125%, 10 s	
Power factor		Full 4-quadrant operation	
Inverter efficiency		Up to 98.4%	
Dimensions (approx.)	24.9 ft x 8 ft x 9.6 ft (7.6 m x 2.4 m x 2.9 m)		27.5 ft x 8 ft x 9.6 ft (8.5 m x 2.4 m x 2.9 m)
Weight (approx.)	51,517 lb (23,368 kg)	51,580 lb (23,396 kg)	53,965 lb (24,478 kg)

Gen 2 Models	SBE-1152-250 250 kW	SBE-1440-250 250 kW	SBE-1728-250 250 kW	SBE-1152-500 500 kW	SBE-1440-500 500 kW	SBE-1728-500 500 kW
Power						
Nameplate DC energy	1,152 kWh	1,440 kWh	1,728 kWh	1,152 kWh	1,440 kWh	1,728 kWh
DC voltage range				1,008-1,296 VDC		
Nominal voltage				1,152 VDC		
AC connection				3-wire (3P3W)		
Nominal AC voltage				480 V		
Frequency				60 Hz		
Overload capacity				110%, 10 min 125%, 10 s		
Power factor				Full 4-quadrant operation		
Inverter efficiency				Up to 98.4%		
Dimensions (approx.)				24.9 ft x 8 ft x 9.6 ft (7.6 m x 2.4 m x 2.9 m)		
Weight (approx.)	44,494 lb (20,182 kg)	50,159 lb (22,752 kg)	55,848 lb (25,332 kg)	44,557 lb (20,111 kg)	50,246 lb (22,791 kg)	55,911 lb (25,361 kg)

\*Gen 1 models: NFPA 855 compliance via NFPA 68 & 69. Gen 2 models: NFPA 855 compliance via NFPA 69.

## ENVIRONMENTAL

Operating temperature	-13 °F to 113 °F -25 °C to 45 °C
Enclosure	NEMA 3R (Outdoor)
Altitude before derate	3,280 ft (1,000 m)
Noise (approx.)	<65 dB @ 3.3 ft (1 m)

## STANDARD FEATURES

### CONTROLS

- Battery (unit) controller
- Door open alarm switch

### ELECTRICAL SYSTEMS

- Auxiliary load panel
- Lighting
- BESS controller panel
- Ground fault monitoring

### BIDIRECTIONAL INVERTER

- Dynamic transfer
- Grid forming
- Grid following
- 4 quadrant operation
- THD < 2%
- Load imbalance capable

### HVAC

- Electric reheat with humidity control

### FIRE PREVENTION & SUPPRESSION SYSTEM

- Gas (H2) and dual zone smoke detectors
- Audible/visual alarms for gas, smoke
- Dry solution fire suppression
- Door mounted E-Stop (remote available)
- **NFPA 69 compliant:** dedicated H2 fan, dedicated UPS for 2 hr H2 fan runtime and 24 hr monitoring
- **NFPA 68 compliant:** deflagration panels on all models; NFPA 68 compliance on select models

### ENCLOSURE

- NEMA 3R
- Structural steel base
- Insulated enclosure and doors
- Reinforced cable cutouts entry points
- Corner cast lifting provisions

## CONTROL SYSTEM

### USE CASES

- Peak shaving
- Arbitrage
- Back up power
- Black start
- Renewable energy shifting
- Voltage regulation
- Frequency response
- Grid forming - off-grid

### FEATURES

- Local data server
- HMI interface
- Cloud based monitoring
- Multilevel authentications for security operation
- Data acquisition and control functions
- Event reporting
- Remote configuration firmware and software upgrade

- Modbus TCP
- CAN
- Ethernet based communication
- Compatibility with 3rd party EMS, SCADA systems

## OPTIONS

### EMS & MICROGRID COMPONENTS

- EMS & Microgrid controller
- SL-751 protective relay cabinet
- Load control center
- Genset control center
- Site power meter

### ELECTRICAL SYSTEMS

- Automatic transfer switch
- Isolation transformer
- LV circuit breaker

### FIRE PREVENTION & SUPPRESSION SYSTEM

- Off gas detection (Li-ion Tamers)

### O&M

- 10 year extended warranty
- Long term service contract

### ENCLOSURE

- Arctic rated

### SEISMIC CERTIFIED

- Certified to: ASCE 7-16, IBC (International Building Code) 2021, CBC (California Building Code) 2022
- Design parameters: Site Class: D; Seismic Design Category (SDC): D, Risk Category = III; Importance Factor (Ip): 1.0; Design Spectral Acceleration (Sds): 2.0

Contact Generac for a one stop solution to integrate our line of generators with our SBE battery system.

Contact Generac for partner(s) referral regarding on-site Engineering/Procurement/Construction (EPC) services.