

**Power Rating:**

125 kW / 250 kW / 500 kW

**Energy Rating:**

500 kWh

**Enclosure Style:**

Custom 10 ft



## Codes and Standards

**Contact Generac for details.**



UL 1642



UL 1973



UL 9540A



UL 1741



UL 9540



CSA 22.2



UN 38.3



IEEE 1547



NFPA 855

## 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	125 kW / 500 kWh	250 kW / 500 kWh	500 kW / 500kWh
Nameplate DC energy	599 kWh	599 kWh	599 kWh
DC voltage range	874-1,123 VDC	874-1,123 VDC	874-1,123 VDC
Nominal voltage	998.4 VDC	998.4 VDC	998.4 VDC
AC connection	3-wire (3P3W)	3-wire (3P3W)	3-wire (3P3W)
Nominal AC voltage	480 V	480 V	480 V
Frequency	60 Hz	60 Hz	60 Hz
Overload capacity	120%, 10s	110%, 10 min; 125%, 10 s	110%, 10 min; 125%, 10 s
Power factor	Full 4-quadrant operation	Full 4-quadrant operation	Full 4-quadrant operation
Inverter efficiency	Up to 98.7%	Up to 98.4%	Up to 98.4%
Dimensions (approx.)	10 ft x 8 ft x 9.6 ft (3.1 m x 2.4 m x 2.9 m)	10 ft x 8 ft x 9.6 ft (3.1 m x 2.4 m x 2.9 m)	10 ft x 8 ft x 9.6 ft (3.1 m x 2.4 m x 2.9 m)
Weight (approx.)	25,200 lb (11,430 kg)	25,500 lb (11,566 kg)	25,600 lb (11,611 kg)

Contact Generac for smaller capacities within the 10 ft enclosure; minimum capacity is 200 kWh.

## ENVIRONMENTAL

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

## STANDARD FEATURES

### ELECTRICAL SYSTEMS

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

### CONTROLS

- Door open alarm switch

### BIDIRECTIONAL INVERTER

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

### FIRE PREVENTION AND SUPPRESSION SYSTEM

- Smoke detectors
- Audible alarm
- Visual alarm
- Remote E-Stop
- Dry solution suppression
- Remote alarm

### ENCLOSURE

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

## BESS CONTROL SYSTEM

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### 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
- Ramp rate control demand management

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

## OPTIONS

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### ELECTRICAL SYSTEMS

- Automatic transfer switch
- Isolation transformer
- LV circuit breaker

### HVAC

- Electric reheat with humidity control

### CONTROLS

- Custom HMI screen interface

### FIRE PREVENTION & SUPPRESSION SYSTEM

- Off gas detection (Li-ion Tamers)

### O&M

- 10 year extended warranty
- Long term service contract

### ENCLOSURE

- Seismic rating
- Arctic rated

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 Engineer/Procurement/Construct (EPC) services.