

Power Rating:
125 kW / 250 kW / 500 kW

Energy Rating:
500 kWh

Enclosure Style:
10' Custom



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 increasingly means balancing a combination of carbon reduction, energy savings and energy resilience goals. Generac's SBE battery energy storage system 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 (C&I) customers to:

- 1) Reduce peak demand charges and save on energy costs.
- 2) Pair with on-site solar and lower both carbon footprint and energy costs.
- 3) 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.
- 4) Earn additional revenue by monetizing the asset to support broader grid resilience.

BESS SPECIFICATIONS	125 kW / 500 kWh	250 kW / 500 kWh	500 kW / 500 kWh
AC port configurations	3-wire (3P3W)	3-wire (3P3W)	3-wire (3P3W)
Nominal AC voltage	480, 600V	480, 600V	480, 600V
Frequency	60 Hz	60 Hz	60 Hz
Overload capacity	110%, 10 mins. 125%, 10s	110%, 10 mins. 125%, 10s	110%, 10 mins. 125%, 10s
Power factor	Unity; Full 4-quadrant	Unity; Full 4-quadrant	Unity; Full 4-quadrant
Peak efficiency	Up to 98.4%	Up to 98.4%	Up to 98.4%
DC voltage range	740-1,475 VDC	710-1,250 VDC	710-1,250 VDC
Nominal voltage	998.4 V	998.4 V	998.4 V
Max battery C-rate	1C	1C	1C
Dimensions (approx.)	10' x 8' x 9'	10' x 8' x 9'	10' x 8' x 9'
Weight (approx.)	20,756 lbs	21,188 lbs	22,111 lbs

Contact Generac for smaller capacities within the 10' 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	3280ft/1,000m	3280ft/1,000m	3280ft/1,000m
Noise (approx.)	65 dB < 1m	65 dB < 1m	65 dB < 1m

STANDARD FEATURES

ELECTRICAL SYSTEMS

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

BIDIRECTIONAL INVERTER

- Dynamic transfer
- Grid tie
- Off-grid
- 4 quadrant operation
- THD <2%
- Single-phase capable

FIRE PREVENTION & SUPPRESSION SYSTEM

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

ENCLOSURE

- NEMA 3R
- Structural steel base
- Drip edge door covers
- Insulated enclosure doors
- Reinforced cable cutouts entry points
- Lifting eye bolts

CONTROLS

- Door open alarm switch

BESS CONTROL SYSTEM

USE CASES

- Peak shaving
- Arbitrage
- Back up power
- Black start
- Renewable energy shifting
- Voltage regulation
- Frequency response
- Engineered UPS
- 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
- Sunspec protocol
- CAN
- Ethernet based communication
- Compatibility with 3rd party EMS, SCADA systems

OPTIONS

ELECTRICAL SYSTEMS

- Automatic transfer switch
- Isolation transformer
- LV circuit breaker

HVAC

- Motorized damper with pressure relief
- Electric reheat with humidity control

CONTROLS

- Custom HMI screen interface
- Larger HMI screen

FIRE PREVENTION & SUPPRESSION SYSTEM

- Off gas detection (Li-ion Tamers)
- Sprinkler system
- Motorized louvers
- Dry pipe
- Deflagration venting panels

O&M

- 10 year extended warranty
- Long term service contract
- Contact Generac for performance guarantee service products

ENCLOSURE

- Security camera
- Exterior flood lights
- Sound reduction silencer
- Seismic rating
- Explosion rated exterior pressured doors
- Exterior finishing
- Arctic rated
- Key pad lock

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.