

**Power Rating:**  
125 kW

**Energy Rating:**  
258 – 1,032 kWh

**Enclosure Style:**  
Outdoor rated cabinet



## Codes and Standards



UL 1642



UL 1973



UL 9540A



UL 1741 SB



UL 9540



CSA 22.2



UN 38.3



IEEE 1547



NFPA 855



NFPA 68

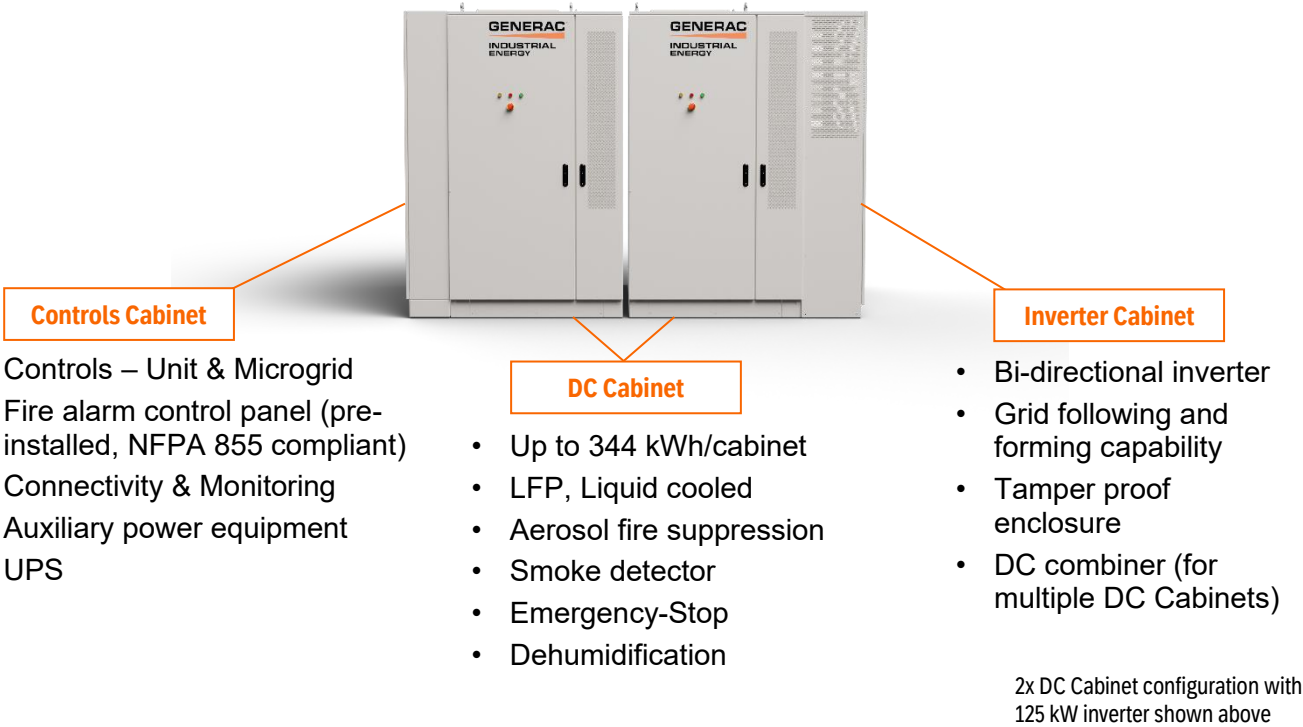
## The Generac Solution

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

SBE energy storage systems enable C&I 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.

Modular and scalable using common building blocks



BESS SPECIFICATIONS

| 125 kW Inverter        | 1x DC Cabinet                                 |                        |                        | 2x DC Cabinets                                 | 3x DC Cabinets                                 |
|------------------------|---|------------------------|------------------------|--|--|
|                        | 125kW/258kWh                                  | 125kW/301kWh           | 125kW/344kWh           | 125kW/688kWh                                   | 125kW/1,032kWh                                 |
| Power                  | 125 kW  |                        |                        |  |  |
| Nameplate DC energy    | 258 kWh                                       | 301 kWh                | 344 kWh                | 688 kWh  | 1,032 kWh                                      |
| DC voltage range       | 806-1,037 VDC                                 | 941-1,210 VDC          | 1,075-1,382 VDC        |  |  |
| DC Nominal voltage     | 921.6 VDC                                     | 1,075.2 VDC            | 1,228.8 VDC            |  |  |
| AC connection          | 3-wire (3P3W)                                 |                        |                        |  |  |
| Nominal AC Voltage     | 480 V   |                        |                        |  |  |
| Frequency              | 60 Hz   |                        |                        |  |  |
| Overload capacity      | 120%, 10s                                     |                        |                        |  |  |
| Power factor           | Full 4-quadrant operation                     |                        |                        |  |  |
| Inverter efficiency    | Up to 98.7%                                   |                        |                        |  |  |
| Operating temperature  | -4 °F to 122 °F<br>-20 °C to 50 °C            |                        |                        |  |  |
| Altitude before derate | 3,280 ft (1,000 m)                            |                        |                        |  |  |
| Noise                  | <70 dB @ 3.3 ft (1 m)                         |                        |                        |  |  |
| Dimensions (WxDxH)*    | 6.9' x 4.4' x 7.5'<br>(2.1 m x 1.3 m x 2.3 m) |                        |                        | 11.2' x 4.4' x 7.5'<br>(3.4 m x 1.3 m x 2.3 m) | 15.6' x 4.4' x 7.5'<br>(4.8 m x 1.3 m x 2.3 m) |
| Weight (approx.)       | 7,480 lb<br>(3,400 kg)                        | 8,140 lb<br>(3,700 kg) | 8,810 lb<br>(4,000 kg) | 16,470 lb<br>(7,470 kg)                        | 23,970 lb<br>(10,870 kg)                       |

\*Approximate dimensions; for multiple DC Cabinets, width assumes minimum required spacing of 30 mm between DC Cabinets.

STANDARD FEATURES

- CONTROLS**

  - Battery (unit) controller

**ELECTRICAL SYSTEMS**

  - Ground fault monitoring
  - BESS control panel
  - Auxiliary power equipment
- BIDIRECTIONAL INVERTER**

  - Dynamic transfer
  - Grid forming
  - Grid following
  - 4 quadrant operation
  - THD < 2%
  - Load imbalance capable
- FIRE PREVENTION AND SUPPRESSION SYSTEM**

  - Aerosol fire suppression
  - Smoke detector
  - NFPA 68 compliant:** deflagration panels
  - Audible/visual alarms
  - Fire alarm control panel
  - Door mounted Emergency-Stop
  - UPS capable of 24 hours in standby and 2 hours in alarm
- ENCLOSURE**

  - Forklift pockets
  - Lifting eyebolts

OPTIONS

- EMS & MICROGRID COMPONENTS**

  - EMS & Microgrid controller (MGC)
  - Protective relay cabinet (PRC / SEL-751)
  - Load control center (LCC)
  - Generator connect cabinet (GCC)
  - Revenue meter cabinet (RMC)
- ELECTRICAL SYSTEMS**

  - Isolation transformer

**CONTROLS CABINET**

  - HMI screen
- O&M**

  - Extended warranty up to 15-years
  - Long-term service contract

CONTROL SYSTEM

- USE CASES (WITH MGC)**

  - Peak shaving
  - Arbitrage
  - Backup power
  - Black start
  - Renewable energy shifting
  - Voltage regulation
  - Frequency response
  - Grid forming - off-grid
- FEATURES**

  - Local data server
  - Cloud based monitoring
  - Multilevel authentications for security operation
  - Data acquisition and control functions
  - Event reporting
  - Ramp rate control demand management
- Modbus TCP
  - CAN
  - Ethernet-based communication
  - Compatibility with 3rd party EMS, SCADA systems

PRODUCT MATRIX

|             | 1x DC Cabinet                   |       |       | 2     | 3     | 4     | 5     | 6     |
|-------------|---------------------------------|-------|-------|-------|-------|-------|-------|-------|
|             | Nameplate Energy capacity (kWh) |       |       |       |       |       |       |       |
| Power (kW)* | 258                             | 301   | 344   | 688   | 1032  | 1376  | 1720  | 2064  |
| 125         | 2hour                           | 2hour | 3hour | 5hour | 8hour |       |       |       |
| 250         |                                 |       |       | 3hour | 4hour | 5hour | 7hour | 8hour |
| 500         |                                 |       |       |       | 2hour | 3hour | 3hour | 4hour |
| 750         |                                 |       |       |       |       |       | 2hour | 3hour |
| 1000        |                                 |       |       |       |       |       |       | 2hour |

\*Power ratings between 250-1000 kW are also allowable; max C-Rate: 0.5C

Product images are for reference only and are subject to change based on product improvements and updates.

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.