

Generac SBE-Cabinet with ETB Controller



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SBE Cabinet

Available Configurations

Model Number	Power	Capacity							
SBE Cabinet-125	125 kW	258 kWh	301 kWh	344 kWh	516 kWh	602 kWh	688 kWh	1032 kWh	
SBE Cabinet-1000	250 kW						688 kWh	1032 kWh	1376 kWh
	500 kW							1032 kWh	1376 kWh

Generac - Fully Integrated ESS

- ✓ Standard Generac warranty of 3 years on the BESS and 5 years on the inverter, with optional extended coverage available.
- ✓ Factory-assembled, cabinet-based ESS designed for streamlined installation.
- ✓ Fully integrated PCS and battery system.
- ✓ Supports backup power and resiliency applications, including microgrid operation when deployed with a Microgrid Controller.

ETB Software Services

- ✓ ETB Controller Software Licenses.
- ✓ ETB Monitor Software Subscription (term to be defined).
- ✓ Optional add-on services available upon request.



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Notes

Generac Resiliency Control Notes:

Generators

As there are many generators and associated controls existing at sites, Generac provides custom control options at an additional cost. Please contact your sales rep for details.

Load shedding

Generac can provide an automated breaker box for shedding specific loads based on battery SOC available for an additional cost. Quoting for this solution will be done on a project-by-project basis, with plan review performed by Generac. Please refer to Generac documentation for specific device capabilities.

PV curtailment

Generac equipment curtails PV output during grid forming by the use of hertz frequency shifting. PV inverters must be compatible with this method.

Transition speed

The speed with which loads are supported by the ESS when utility is lost is dependent on breaker speed and local utility requirements. This is generally less than a 2 second blink.

Additional Notes

The Generac ARC Controller can be purchased with an HMI if required by project design requirements. Please contact your Energy Toolbase representative for details and associated costs.

Generac Resiliency Costs:

Generac required engineering services are priced on project application type:

- BESS only
- BESS + PV
- BESS + PV + Genset

Generac ARC Controller is required for Microgrid functionality. Generac also supplies the PRC (Protective Relay Cabinet), but developer is responsible for grid protection disconnection equipment.



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FAQs

1. What are the lead times for the products?

Please contact your Energy Toolbase Regional Account Manager for the most accurate lead times.

2. Who manufactures the PCS and battery cells and where is it assembled?

The Generac SBE Cabinet systems utilize two PCS suppliers—Dynapower from India and EPC from the United States. The battery modules are manufactured by EVE Power in China.

3. What UL Certifications does the ESS have?

The Generac SBE Cabinet systems are UL 9540 certified, with batteries certified to UL 1973 and battery cells compliant with UL 1642. The systems have been evaluated under UL 9540A and utilize inverters compliant with UL 1741 SB.

4. Can the unit provide back-up power or resiliency capabilities?

Yes. Both Generac SBE Cabinet models support backup power and black start when deployed as part of a microgrid configuration with a Microgrid Controller (MGC). The systems utilize bi-directional inverters with grid-forming and grid-following capability. Microgrid controls are provided by Ageto, a Generac subsidiary.

5. What are response and replacement times on breaks or malfunctions?

Guaranteed response or replacement times are not specified. Generac is a leading American supplier of generators and, as such, has a robust service department to handle service issues in a timely manner.

6. How long is the warranty and what does it cover?

Generac systems include a standard warranty of 3 years on the BESS and 5 years on the inverter. Additional details on standard warranty coverage are provided in Generac's Limited Warranty documentation. An optional extended warranty may be available depending on system configuration. Please contact your Energy Toolbase representative for full warranty details.

7. Does the product include HVAC or fire suppression features?

The ESS features liquid cooling for thermal management, and the systems include integrated aerosol fire suppression, smoke detection, audible/visual alarms, and NFPA 68-compliant deflagration panels.

8. What are the physical dimensions of the unit(s)?

The physical dimensions of the Generac SBE Cabinet vary by configuration and are primarily determined by the selected battery cabinet (B-cab) capacity and overall system layout. For exact dimensions and spacing requirements, please refer to the Generac installation manual.

9. What are the O&M requirements and costs for the asset owner?

Routine operations and maintenance, including service and replacement of parts, are the responsibility of the asset owner or customer. These activities are not considered defects in materials or workmanship under the warranty. Units must be registered in accordance with the Owner's Manual.



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10. Does Generac and/or ETB provide commissioning support?

Yes. Generac provides onsite commissioning for its products. Energy Toolbase provides remote commissioning support for ETB Controller systems.

11. Can PV be DC-coupled to the energy storage system?

No. Generac systems do not support DC-coupled PV.

12. Can the units be installed in marine environments?

All Generac models offered by Energy Toolbase include a C-4 coating. A C-5 coating may be available as an upgrade at an additional cost. Damage due to saltwater corrosion is not covered.

13. Are the Generac SBE systems offered by Energy Toolbase FEOC compliant?

Yes. Energy Toolbase offers Generac SBE system configurations that are represented, based on manufacturer-provided information, as meeting FEOC compliance requirements. FEOC compliance is evaluated at the system and configuration level, and availability may vary by model and over time. Energy Toolbase does not independently certify FEOC compliance and recommends confirmation with the manufacturer and applicable advisors.



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