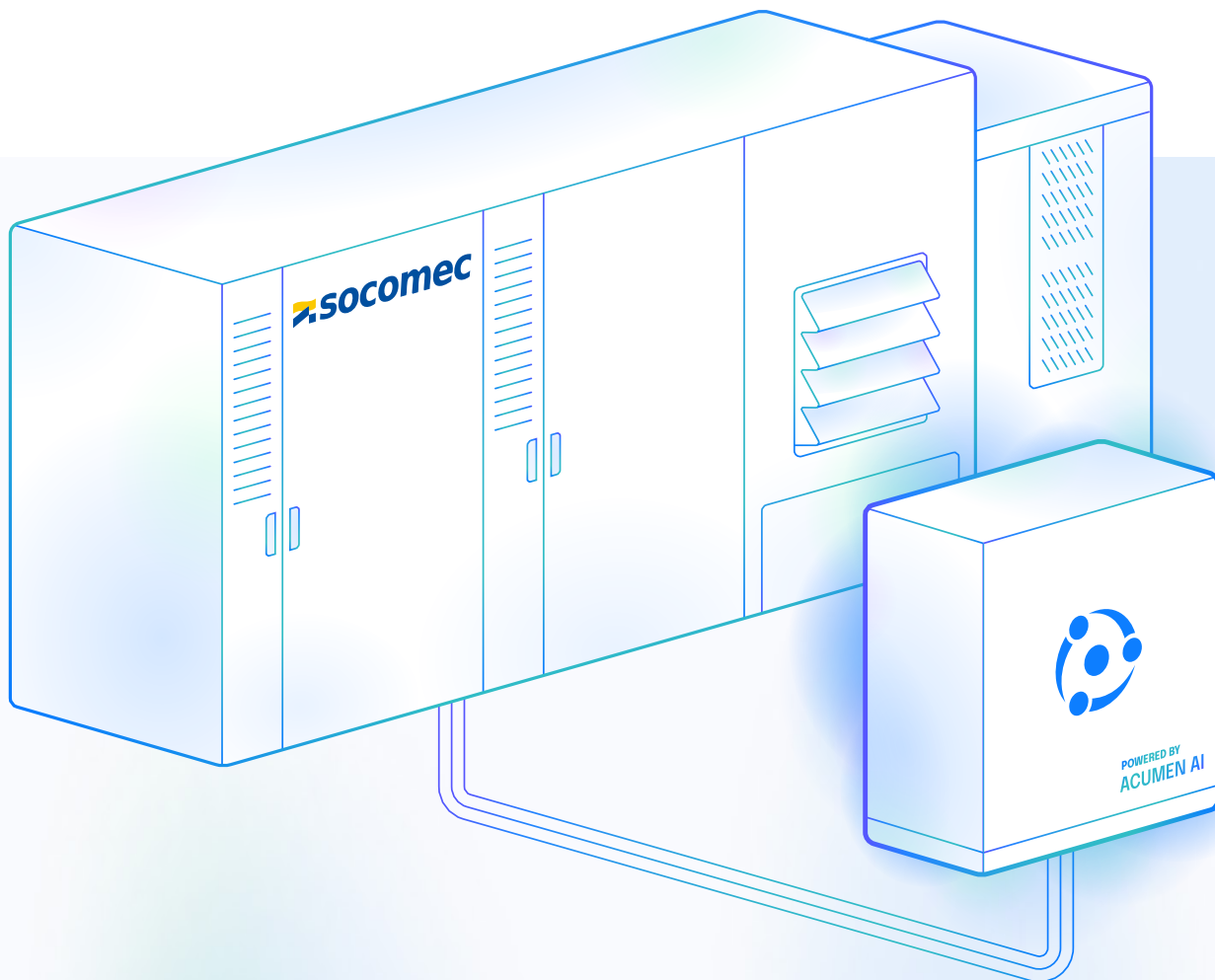


Socomec SUNSYS HES XXL with ETB Controller



Socomec with ETB Controller

SUNSYS HES XXL

Available Configurations

ESS Power	Voltage	ESS Capacities											
500 kW	600 V	1628 kWh	2035 kWh	2442 kWh									
750 kW	600 V		2035 kWh	2442 kWh	2849 kWh	3256 kWh							
1000 kW	600 V		2035 kWh	2442 kWh	2849 kWh	3256 kWh	3663 kWh	4070 kWh	4477 kWh				
1250 kW	600 V			2442 kWh	2849 kWh	3256 kWh	3663 kWh	4070 kWh	4477 kWh	4884 kWh	5291 kWh	5698 kWh	
1500 kW	690 V					3256 kWh	3663 kWh	4070 kWh	4477 kWh	4884 kWh	5291 kWh	5698 kWh	6105 kWh

Socomec - Fully Integrated ESS

- ✓ 5-year standard warranty on entire Energy Storage System. (10, 15, and 20-year extensions available).
- ✓ Comprehensive suite of documentation supporting system installation, deployment and operation.
- ✓ Fully integrated PCS and EMS.
- ✓ Back-up and Resiliency control software (when applicable).

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

Resiliency Control Notes

Generators

Uncontrolled generators must be behind an Automatic Transfer Switch (ATS). When the ESS is no longer Grid Forming during an outage, the generator powers loads.

Load Shedding

No load control is provided under the standard resiliency services options. Contact your Regional Account Manager to discuss options for load control.

PV Curtailment

Socomec equipment does not directly curtail PV inverters. Curtailment only done through frequency shift. PV equipment must be compatible with this method of curtailment.

Transition Speed

When switching from on-grid to off-grid, the site will experience up to 1.5s downtime. When switching from off-grid to on-grid, the transition is seamless and does NOT require a CRE card.

Socomec Resiliency Costs

Socomec required engineering services are priced and included based on islanding project application type:

- BESS Only
- BESS+PV
- BESS+PV+Uncontrolled Generator
- BESS+PV+Controlled Generator

Socomec PMS Extension is required for islanding functionality.

Developer is responsible for grid isolation equipment and associated electrical infrastructure hardware.

Additional Notes

The unit is not rated as an Uninterruptible Power Supply (UPS), but the transition to islanding is about one second. Contact your Regional Account Manager with questions. Socomec is only integrated with SEL-751 islanding relay unless using CRE. With a CRE card, other relays can be used. All metering equipment must be Digiware products.

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 & battery cells & where is it assembled?

The converter is manufactured by EPC Power in the USA.

The lithium iron phosphate (LFP) batteries are manufactured by CATL in China.

3. What UL Certifications does the Socomec ESS have?

The Socomec PCS included in the ESS system is UL 1741 SB PCS-CRD certified, while the ESS system has received its UL 9540-2020 certification. Fire testing under the UL 9450A standard has been completed at the cabinet level for the CATL batteries.



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

Yes. Developers can purchase the units with or without Islanding Mode pre-configured and set up to handle microgrid functionalities.

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

Socomec boasts a 96% uptime guarantee. When a malfunction occurs under the terms of the warranty, and proper troubleshooting and triage determines a fix is needed, Socomec will have a technician to the site within 24-72 hours. The actual fix time will vary on the severity of the problem that occurs.

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

The warranty is a 5-year standard warranty on parts (PCS and battery).
Warranty Extension, with Preventive Maintenance Plan is available for 10, 15, and 20 years.

7. What is battery degradation?

Battery degradation is variable and highly dependent on project specifics. For modeling purposes, Energy Toolbase applies an average annual degradation rate of 3%, which can be adjusted based on project specific ESS dispatch profiles.

8. Does the product come with HVAC &/or fire suppression?

Yes, CATL batteries are liquid cooled with cabinets that contain an integrated aerosol fire suppression system.
PCS units are forced air cooled.

9. What is the physical size of the unit(s)?

HES XXL EnerOne+ C-Cab Converter Cabinet	HES XXL EnerOne+ B-Cab Battery Cabinet	HES XXL EnerOne+ M-Cab Master Cabinet
1000 x 1636 x 2281 mm	1300 x 1300 x 2280 mm	894 x 1046 x 2000 mm
3000 lbs	7827 lbs	611 lbs

10. What are the O&M costs? Is there an O&M requirement for the asset owner?

Warranty Extension & Preventive Maintenance Plans are available for 10, 15, and 20 years.
The asset owner is responsible for the cleaning or replacement of air filters. Contact your Regional Account Manager for pricing.

11. Does Socomec &/or ETB provide commissioning support?

Socomec provides commissioning support for every system.
This is included in the pricing for every system. Energy Toolbase provides remote commissioning support for the EMS commissioning.

12. Can the unit be AC or DC coupled?

AC Coupled.

13. Can the Socomec units be installed in marine environments?

Installations within 500 meters are now supported. 500 meters - 2 km require Socomec approval.
Contact your account manager for additional support.



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