



## Advanced Energy Storage Product Application

Fill out this application to have your product considered for the HERO Program. Refer to the **addendum** for specific product requirements.

Manufacturer Name

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Model Name or Number

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Power Rating

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 kW

Storage Capacity

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 kWh

Depth of Discharge

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 %

Round Trip Efficiency

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 %

Integrated Inverter

☐ Yes ☐ No

System Type

☐ Daily Cycle ☐ Backup System

Safety Certification (select at least one)

☐ UL 1973 ☐ UL Subject 9540

☐ IEC 62845 ☐ UL 1741

☐ IEC 62109 ☐ 

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 Other

Manufacturer Warranty (10 years minimum)

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 years

### Required Documentation

- Safety Certification
- Manufacturer Warranty

**Submit your application** by emailing this form with the subject line of "Advanced Energy Storage Product Application" and **required attachments to:**



[heroproducts@heroprogram.com](mailto:heroproducts@heroprogram.com)

## AES Equipment Eligibility Specifications

<https://www.selfgenca.com/documents/handbook/2015>

- 1. System Safety Certification** – Product must have obtained a system certification from a nationally recognized testing laboratory (NRTL) indicating that the technology meets the safety requirements of one of the following acceptable standards:
  - a. **UL 1973** – Batteries for Use in Light Electric Rail and Stationary Applications
  - b. **UL Subject 9540** – Safety for Energy Storage Systems and Equipment
  - c. **IEC 62845-2** – Safety Requirements for Secondary Batteries and Battery Installations – Part 2: Stationary Batteries
  - d. **IEC-62109** – Standard for Safety of Power Converters for use in Photovoltaic Power Systems
  - e. **UL 1741** – Standard for Inverters, Converters, Controllers and Interconnection System Equipment for Use With Distributed Energy Resources
  - f. **Other** equivalent industry standards
- 2. System Performance** – The system must have documented test results showing that the system meets the following performance requirements:
  - a. **Discharge Capabilities:**
    - i. **Daily Cycle System** – Must be capable of discharging its rated capacity for a minimum of 2 hours and fully discharging at least once per day.
    - ii. **Weekly Cycle System** – Must be capable of fully discharging its rated capacity at least 50 times per year.
  - b. **Round Trip Efficiency:**
    - i. System must maintain round trip efficiencies greater than or equal to 63.5%. Round trip efficiency is defined as the ratio of energy delivered during system discharge (AC) to the energy required to charge the system (AC).
- 3. Manufacturer Warranty** – All systems must carry a minimum 10-year manufacturer warranty on primary system equipment (i.e. battery system).
- 4. HERO Pre-Approval** – All systems must be a pre-approved storage system and listed on the HERO Program's Approved AES List (systems may be submitted to the HERO Technical Review Panel by emailing technical documentation to [HeroProducts@heroprogram.com](mailto:HeroProducts@heroprogram.com)).

## AES Installation Requirements

- 1. Acceptable Installation Criteria** – System may be installed with other HERO-eligible generation products (i.e. Solar PV, Small Wind Turbine, Fuel Cell System).
- 2. Permanent Installation Requirements** – All systems must be permanently installed to the property. Permanent installation is constituted by the system being installed with electrical connections in accordance with industry practice for permanently installed equipment and by being secured to a permanent surface on the premises of the property.
- 3. Interconnection Requirements** – All systems must be interconnected to the local electric utility's distribution system and must be installed on the host customer's side of the electric utility meter. Systems must also be configured to operate in parallel with the grid per utility interconnection requirements.
- 4. Permitting Requirements** – All systems must obtain applicable building permits in accordance with local building department requirements.