

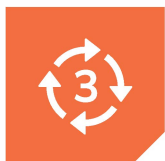
Energy Storage Vessel™



P R E L I M I N A R Y

Now with:

- **100% increase in energy density**
- **150% greater capacity**
- **150% more power**



3/30/30,000

Energy Storage Vessels can cycle up to 3 times per day without rest and boast an expected lifetime of 30 years / 30,000 cycles – enabling unique applications and business models for developers, integrators, and owners.



NO FIRE RISK

Unlike Li-ion chemistries, EnerVenue batteries exhibit no risk of thermal runaway or fire propagation.



LONG-TERM SECURITY

With the battery market's longest and simplest extended warranty available – Capacity Assurance™ – system owners are guaranteed at least 88% capacity after 20 years/20,000 cycles. The warranty safeguards a project's most critical years and helps ensure expected returns are achieved.

Based on proven technology used by NASA for more than 30 years, EnerVenue Energy Storage Vessels feature an exceptionally long lifespan, eliminating the need for augmentation or oversizing. Energy Storage Vessels can be easily mounted in racks, containers or stacked in custom warehousing. Its unique chemistry eliminates the need for preventative fire suppression. It can also reliably operate in a wide ambient temperature range without supplementary HVAC. Energy Storage Vessels dramatically reduce OPEX and feature a much lower cost-per-cycle compared to lithium-ion chemistries.

Model: Energy Storage Vessel ESV-4.0

P R E L I M I N A R Y

| TYPE | DESCRIPTION | SPECIFICATION |
|-------------|-----------------------------------|---|
| Mechanical | Dimensions (Diameter x Length) | 168mm x 1800mm |
| | Format | Tubular |
| | Type | Large Format Battery |
| | Weight | 62 Kg / 136 lbs |
| | Operating Temperature | -10C to 45C |
| | Storage Temperature | -15 to 60 C |
| | Cooling Type (Pending) | Convection, Forced Air |
| Electrical | Nominal Amp-hour Charge/Discharge | 137 Ah |
| | Nominal Energy Capacity | 3.0 kWh @ 25 °C |
| | Voltage Range | 23-30 Vdc across full range of SOC (0-100%) @ 25 °C |
| | Nominal Power | 1500 W |
| | C-Rates | C/2 - C/12 |
| | Peak RTE | >90% @ 25 °C |
| | Expected Capacity Retention | 86% after 30,000 cycles |
| | Chemistry | Ni-H2 |
| | Modes | Constant Current, Constant Power |
| | BMS | EnerVenue BMS 1000 V / 1500 V |
| Performance | Warranty | 3-years standard, extendable to 20 years |
| Regulatory | Certifications Pending | UL1973* and applicable CE standards |
| | Tests Pending | UL 9540A |
| | Product Name | ESV-4 |

*UL 1973, Annex E

2023-V1. All products claims and technical data are subject to change at any time without notice. The customer is responsible for verifying all applicable information at the time an order is placed. All information represented is believed to be accurate, but it is presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Product for international markets may ship from alternative manufacturing sites.

CONTACT INFORMATION



ENERVENUE