

Aqueous Metal Cell (AMC)TM



The chemistry that ran satellites is now available on Earth.

Based on proven technology used by NASA for more than 30 years, EnerVenue Aqueous Metal Cells feature an exceptionally long design life.

Lab tested -20° to 60° C, AMCs do not require active thermal management or extra protective systems.

These sealed, large-format battery cells feature a 100 percent depth of discharge, minimal degradation, and almost no maintenance.



30,000 CYCLES

Aqueous Metal Cells are engineered for a 30-year lifespan, can cycle up to three times per day without rest, and boast a design life of 30,000 cycles – enabling unique applications and business models for developers, integrators, and owners.



IMPROVED FIRE SAFETY

As demonstrated by testing to the UL9540A protocol, AMCs exhibit no threat of fire from thermal runaway, which improves system safety, speeds permitting, and reduces cost and risk.



HIGH EFFICIENCY LDES

Address the growing market for long duration energy storage (LDES) with a flexible discharge and superior round trip efficiency versus other LDES technologies.

BORN TO EMPOWER.
BUILT TO ENDURE.

Product: Aqueous Metal Cell

| TYPE | DESCRIPTION | SPECIFICATION |
|--------------------------------|--------------------------------|---|
| Mechanical | Dimensions (Diameter x Length) | 191 mm x 2078mm |
| | Format | Tubular |
| | Type | Large Format Battery |
| | Weight | 69 Kg / 152 lbs |
| | Operating Temperature | -10C to 45C |
| | Storage Temperature | -15 to 60 C |
| | Lab Tested Temperature | -20 to 60C |
| | Cooling Type (Pending) | Convection, Ambient Forced Air |
| | Overwrap | Composite |
| | Electrical | Nominal Amp-hour Charge/Discharge |
| Nominal Energy Capacity | | 3.0 kWh @ 25 °C |
| Voltage Range | | 21.5-30 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 @ C/4 |
| Anticipated Capacity Retention | | 86% after 30,000 cycles >80% after 30,00 cycles |
| Chemistry | | Aqueous Metal (Ni-H2) |
| Modes | | Constant Current, Constant Power |
| BMS | | EnerVenue BMS 1000 V / 1500 V |
| Regulatory | Certifications Pending | UL1973* and applicable CE standards |
| | Test Procedures Complete | UL 9540A |
| | Model | AMC-4.2 |

2026-V1. All product 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.

CONTACT INFORMATION

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