Power your life with LAVO™
Introducing the next generation of energy storage.

The world’s first integrated hybrid hydrogen battery that combines with rooftop solar to deliver sustainable, reliable and renewable power to your home and business.

Renewable
Stores green energy from your solar panels
Durable
Operational in conditions -10° to +50° C
Australian Made
Designed and Developed

Technical Specifications

<table>
<thead>
<tr>
<th>Mechanical</th>
<th>Environmental</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (HxWxD)</td>
<td>Operating Temperature Range</td>
</tr>
<tr>
<td>1680 x 1240 x 400 mm</td>
<td>-10° to +50° C</td>
</tr>
<tr>
<td>Weight</td>
<td>Recommended Temperature Range</td>
</tr>
<tr>
<td>196 kg</td>
<td>5° to 45° C</td>
</tr>
<tr>
<td>Hydride Vessels</td>
<td>Environmental Humidity Range</td>
</tr>
<tr>
<td>4 vessels</td>
<td>3 to 100% RH</td>
</tr>
<tr>
<td>Max System Pressure</td>
<td>Maximum Elevation</td>
</tr>
<tr>
<td>35 bar</td>
<td>2000 m</td>
</tr>
<tr>
<td>Vessel Weight</td>
<td>Noise Level</td>
</tr>
<tr>
<td>32 kg</td>
<td>&lt; 45 dB</td>
</tr>
<tr>
<td>Total Installed Weight</td>
<td>Enclosure Protection Rating</td>
</tr>
<tr>
<td>324 kg</td>
<td>IP54</td>
</tr>
<tr>
<td>Mounting¹</td>
<td></td>
</tr>
<tr>
<td>Floor Mount/Outdoors</td>
<td></td>
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</tbody>
</table>

The LAVO™ Energy Storage System

Developed in partnership with UNSW and Design + Industry, LAVO™ is a hydrogen hybrid battery that stores over 40KWh of electricity - enough to power the average Australian home for 2 days. Integrating with standard rooftop solar, LAVO™ generates green hydrogen for renewable power when you need it.

The LAVO™ patented hydride absorbs hydrogen in metal alloy to enable safe, long term storage within a secure vessel. Sustainable energy for you home and business.

The Hydrogen Hydride

The LAVO™ uses innovative, patented metal hydride to produce batteries that last three times longer than lithium batteries at a similar price. This unique hydride is energy efficient, carbon neutral, safe, non-flammable, and designed for all components to be recycled.

¹ Per Australian Building Code regulations.

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LAVO™ System

LAVO™ acts as a solar sponge, integrating with rooftop solar to capture and store renewable energy for use when you need it.

**Creates Hydrogen** from water

**Stores Hydrogen** into LAVO™’s patented metal hydride

**Generates Electricity** by converting hydrogen into power

**Delivers Power** at a regulated voltage to your home

**Monitors & Controls** performance via the LAVO™ app

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**Fuel Cell**

The fuel cell is used to convert energy stored in the hydrogen back into electrical energy. This electrical energy is released by combining hydrogen from the hydride storage vessels and oxygen from the air to form water.

**DC-DC Converter**

A power conversion system is used to regulate the electrical output from the fuel cell. The electrical output from the fuel cell is variable. The DC-DC converter regulates this by boosting the voltage from the fuel cell output up to match the voltage expected at the input of the hybrid inverter.

**Battery**

The LAVO™ system also includes a small traditional Lithium-ion battery for fast response time. A hybrid energy storage system provides benefits of both storage technologies.

**Hybrid Inverter**

The hybrid inverter manages the flow of electrical energy between the solar cell array, the LAVO™ and the household.

**Electrolyser**

The electrolyser converts excess electrical energy from the solar system through electrolysis, where the water is split into hydrogen and oxygen. The energy is stored as hydrogen and the oxygen is released into the atmosphere.

**Water Purifier**

The electrolyser requires demineralised water for the electrolysis process. The integrated water purifier treats the incoming tap water, enabling the electrolyser to run using a standard mains water supply.

**LAVO™ Hydride**

Patented metal alloy that stores and regulates hydrogen at a pressure of 30 bar. 100% recyclable the hydride will deliver 20,000 cycles of storage and charge.

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