

METAL HYDRIDE

Finally the ultimate fuel in a safe, adaptable form

Until now, the challenge has been how to store hydrogen in a safe, compact, economical and usable form to provide the power needed for today, and tomorrow's power applications.

H2 Logic offers state-of-the-art hydrogen metal hydrides storage systems as the promising storage solution to be used in a variety of hydrogen-fueled power applications.

H2 Logic offer Ovonic solid hydrogen storage - the best canisters on the market with the highest energy weight density available.

Ovonic canisters feature:

- Higher performance
- Greater hydrogen capacity
- Better absorption and desorption
- Competitive prices

Technology

H2 Logic solutions utilize proprietary metal hydride technology to safely store hydrogen in a compact manner at low pressure. When hydrogen bonds to the alloy powder contained in the canister it is stored in a solid state at densities many times higher than traditional compressed hydrogen gas.

Our storage advances:

- Low pressure filling and low pressure system
- Integrated safety devices approved by US DOT
- Fast refueling time
- Highest energy density on the market
- Used in commercial applications
- Light weight aluminum metal hydrides



Our Services

H2 Logic has extensive experience in using metal hydrides and offer our customers comprehensive guidance in use and system integration. Further we have centralized stock offering short delivery time to costumers in Europe.

We have metal hydrides that fit fuel cell systems from 10 watt to more than 4000 watt.

H2 Logic is proud to be the authorized distributor of Ovonic Hydrogen Systems metal hydrides in Europe.



H2 Logic
Hydrogen Fuel Cell Motive Power Solutions

EXAMPLES & REFERENCES CANISTERS

H2 Logic metal hydride are widely used in different applications supplying fuel cells with hydrogen

Transportation - H2 Truck

Fuel cell systems in smaller transport applications are a strong alternative for the use of batteries or combusting engines. However the hydrogen storage and infrastructure is a challenge. We offer storage systems without need for high pressure hydrogen thus giving an easier and cheaper hydrogen refill and infrastructure system.

Pictures from H2 Logic



Hydrogen vehicle in operation at hospitals and city centers - using special designed canisters 4x 900L

Stationary Power & UPS

Uninterruptible power supplies with fuel cell and metal hydride storage canisters as an attractive alternative to hydrogen stored and delivered under pressure. UPS system with our metal hydride reduces space taken up by the hydrogen storage in the UPS system. The storage system also enables onsite hydrogen production eliminating the need for supply of hydrogen from outside. This is especially ideal for very remote sites.

Picture from Ovonic LLC



Rack with 4x900L canisters for use in UPS applications

Portable equipment

Fuel cell power solutions offered with our metal hydride storage solution gives end-users such as broadcasters, military or first responders a predictable power and rapid refill time. Our canister products are thereby superior to batteries in terms of reliability, charge/refill time and power density.

Pictures from Jadoo Power



75L and 85L canisters for plug and play in fuel cell system by Jadoo power for handheld applications

What is your application?

Are you building fuel cell systems or participating in research, development or demonstration projects? – Our metal hydride could be an option for the hydrogen storage. Contact us to hear more about the possibilities with the use of our metal hydrides in your application. H2 Logic - the trusted metal hydride supplier in Europe.



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