



MyH2®

HYDROGEN STORED SIMPLE

H2 smart metal hydrides storage
system



CAPTURE LONG TERM ENERGY

The best H₂ storage device
featuring the most advanced
quick connection
system with the highest
performances yet.

Security council impacts

1.30 Keep away from sources of ignition
2.2.1 Use precautionary measures against
static discharge

HYDROGEN



EXTREMELY FLAMMABLE

DO NOT

Use for
Actions to
avoid

MyH2 3000

Hydrogen stored simple

Designed and manufactured in Italy
Designed by Hydro2Power SRL
Via Marengola 23/A, 20069 Vaprio d'Adda (MI)
Phone +39 02 30909883 email staff@h2planet.eu
7847

Serial No. 2016-04-1511
Manufacturing date: April 15th 2016
Expiry date: April 15th 2026

ISO 9811 compliant - CE certified

2009 - Hydrogen in a metal hydride storage system
Type HC hydrogen ultrahigh gas minimum 4.5 (99.999% purity) supplied 3.0
MAXIMUM refilling pressure above 5°C 30bar

MAXIMUM operative and storage temperature: 65°C

DO NOT EXPOSE TO TEMPERATURES ABOVE 65°C, OPEN FLA, 13 OR HAZARDOUS

WARNING: Valve may be damaged if subjected to impact. KE 13A131 PROTECTIVE

CONNECTED FOR USE

System weight: 11.5kg

Hydrogen capacity: 270g

MyH2® is the most reliable high-capacitance, safe and effective hydrogen storage system existing today which was developed thanks to H2planet's research carried out in 7 years of tests and 2 years of developments of new high absorption metallic powders.

MyH2® is the most advanced hydrogen metal hydrides storage system, compliant with ISO 16111 and transportable UN3479, CE certified in reference to PED for the industrial pressure vessels and the only one low pressure hydrogen storage system on the market which is compliant with EU and Italian laws and regulations about pressurized vessels.



MYH2® IS NOT ONLY AN ENERGY STORAGE SYSTEM FOR THE H2PLANET'S PLUG&PLAY GREENBOX AND GREENHUB FUEL-CELL GENSETS.

MYH2® CAN BE ALSO ADOPTED FOR PRACTICAL AND SAFE HYDROGEN STORAGE FOR SEVERAL TECHNICAL AND SCIENTIFIC USES FROM WELDING TO GASCROMATOGRAPHY.



- Welding in remote locations for professionals
- Precise welding for jewelery
- Mecanical workshops
- On field experimental balloons launches
- Laboratories, gas chromatographs,
- FID/TOC analysers etc..



MYH2® COULD BE USED WITH THE ULTIMATE GENERATION OF TRAINING PANEL FOR STUDYING AND TESTING PEM HYDROGEN FUEL-CELL TECHNOLOGY UP TO 100W POWER



These trainers has been designed for the study of fuel cell systems. Teaches engineering principles and allows performing a set of experiments for educational purposes. They are safe and easy to be operated.

Furthermore, are very flexible, modular and suitable for the understanding of basic principles as well as more complex technology concepts..

MyH2® can store at only 10-20bar 3 times more hydrogen than the high pressure (200bar) standard industrial vessels in the same water capacity with huge storage and safety advantages.



METAL HYDRID STORAGE

HIGH PRESSURE STORAGE



=



Industrial tanks

10-20 bar
3000 NI

200 bar
3000 NI



Use zero maintenance Hy-PEM XP electrolyzers to store hydrogen in an easy, safe and simply way thanks to H2planet's excellence in H2 storage. Once refilled with ultrapure hydrogen use cartridges immediately or even after months with the GreenBox 2 and GreenHub 2 plug&play smart fuel cell generators manufactured by H2planet.



HOW TO CHARGE MyH2® AND MyH2® SLIM CANISTERS

THROUGH ELECTROLYSER



THROUGH HIGH PRESSURE TANK





MyH2 300

MyH2 600

MyH2 900

MyH2 2000

MyH2 3000



GreenBox 100

GreenBox 100
GreenBox 200

GreenBox 100
GreenBox 200
GreenBox 300

GreenBox 100
GreenBox 200
GreenBox 300

GreenBox 100
GreenBox 200
GreenBox 300

MATCHING MYH2® - GREENBOX 2



MATCHING

MYH2® - GREENHUB 2



MyH2 2000

MyH2 3000

MyH2 3000 x2
(see cluster offers)

MyH2 3000 x3
(see cluster offers)

MyH2 3000 x5
(see cluster offers)



GreenHub PRO 500
GreenHub FLUO/PRO/
XTM 1000*

GreenHub PRO 500
GreenHub FLUO/PRO/XTM
1000*

GreenHub PRO/XTM 2000

GreenHub FLUO/PRO/XTM
3000

GreenHub FLUO/PRO/
XTM 5000





MyH2 300

MyH2 600

MyH2 900

MyH2 2000

MyH2 3000

H-12, H-20, H-30,
H-60, H-100

H-12, H-20, H-30, H-60,
H-100, H-200

H-12, H-20, H-30, H-60,
H-100, H-200, H-300

H-12, H-20, H-30, H-60,
H-100, H-200, H-500,
H-500XP, H-1000*

H-12, H-20, H-30,
H-60, H-100, H-200,
H-500, H-500XP,
H-1000, H-1000XP



MATCHING MYH2® - STACK



CLUSTER

The offers concerns the purchase from 2 (6Nm³ of stored hydrogen) to 8 (24Nm³) MyH2® 3000 cartridges.



MyH2 3000 x2
(see cluster offers)

MyH2 3000 x3
(see cluster offers)

MyH2 3000 x5
(see cluster offers)

H-2000

H-3000

H-5000





Each MyH2® metal hydrides cartridge features defined technical specifications in terms of guaranteed minimum hydrogen flow at ambient temperature operative conditions (reference value 20°C) that can be supplied to different GreenBox 2/GreenHub 2 power gensets or H-series fuel-cell stacks.



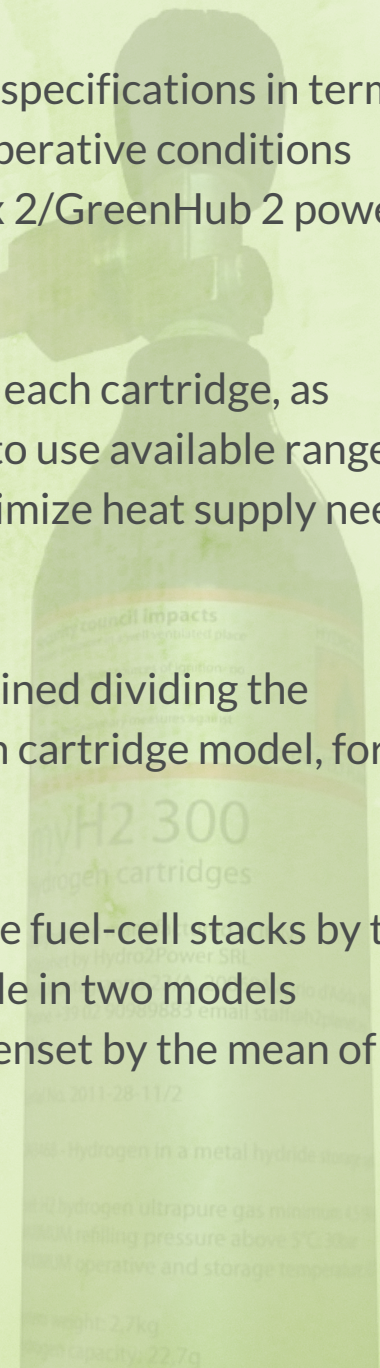
Because of heat necessity to fully desorb hydrogen gas content of each cartridge, as typical of metal hydrides technology, it is strongly recommended to use available range of cartridges sizes according to shown compatibility. This would minimize heat supply need enabling trouble free feeding of power gensets or stacks.



Guaranteed running time provided by cartridge can be easily obtained dividing the maximum storable liters of hydrogen, indicated by number of each cartridge model, for hydrogen gensets or stacks max flow consumption rates (l/min.).



All of MyH2® cartridges can be easily and rapidly connected to the fuel-cell stacks by the mean of Hy-Supply XP compatible pressure regulation kit, available in two models depending on flow needs, and separately purchasable. Or to the genset by the mean of compatible connection kit included.





ACCESSORIES

Pressure regulator kit

Flow regulator kit



TRANSPORTATION AND SAFETY

MyH2® is the most advanced hydrogen metal hydrides storage system, compliant with ISO 16111 and transportable UN3479, CE certified in reference to PED.

We ship MyH2® worldwide according to ADR/DGR/IMDG regulations and standards thanks to the compliant drums and packing comprised with each supply.

MyH2® can be also delivered according to US D.O.T. standards and norms, enquiry for your a version compliant with regulations of your country.



PRODUCT IDENTIFICATION

Hydrogen contained in metal hydrides for fuel cells .

Chemical formula: H₂

CLASS 2.1 - Gas

Classification: 6F



CUSTOMERS



Consiglio Nazionale
delle Ricerche



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