

GREEN ENERGY STORAGE

HY2MINI



Energy storage capacity

10 - 25 kg hydrogen
(165 - 420 kWh electrical)



Power

7kW / 19kW
peak load (15 min every 12h)

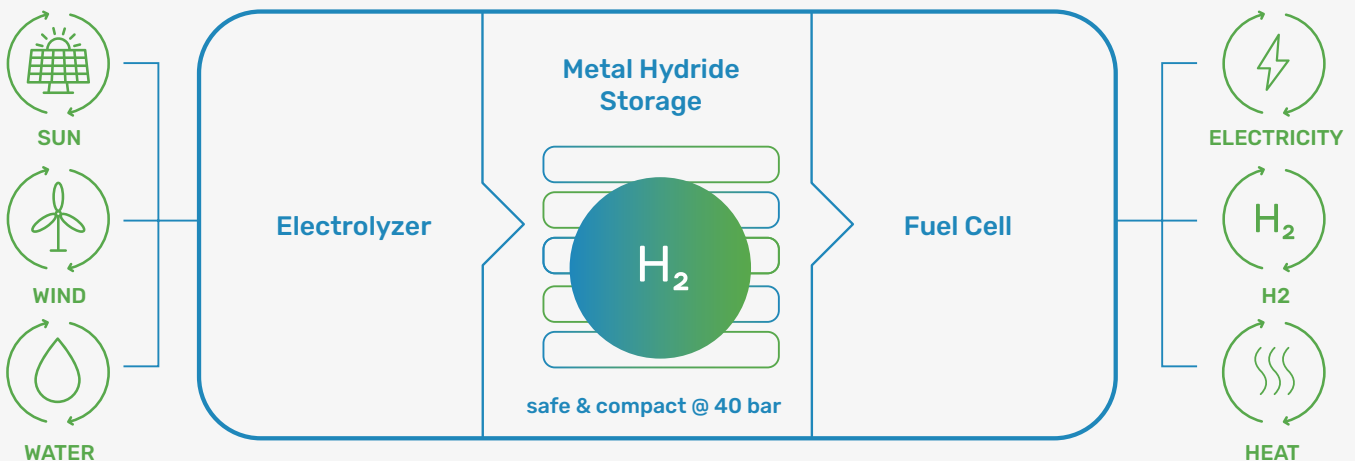


Electrical system

1 or 3 Phase to local requirement
EU 120V/230V/400V - 50 Hz
NA 120V/240V/480V - 60 Hz

10 feet containerized solution

How to increase use of renewable energy?
Store as green hydrogen and reuse on-demand!



SPECIFICATION



Energy storage capacity

165 - 420 kWh electrical
10 - 25 kg H₂ @ max. 40 bar



Nominal load

7 kW



Peak load

19 kW (15 min every 12h)



Output voltages

EU 120V/230V/400V - 50 Hz
NA 120V/ 240V/480V - 60 Hz



Power during outage

7 kW up to 60h



Electrolyzer

1 - 4 kg hydrogen per 24 h



Dimensions / Weight

3 m x 2.5 m x 2.6 m /
4,000 - 6,000 kg

Application areas



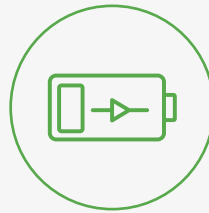
INDUSTRY



BACK-UP
POWER SUPPLY



MICRO GRIDS
& AUTARCHY



ENERGY BALANCING



ELECTRICAL
VEHICLE CHARGING

Unique advantages

100% recyclable

100% safe - Solid state hydrogen storage at max. 40 bar

Superior energy / space ratio vs. batteries or compressed gas storage

Storage life expectancy of 30 years

Energy storage capacity maintained over lifetime

No compressor needed

Requirements

- Concrete foundation (building authority)
- Interface points (Input: PV, wind.../ Output: power line)
- Definition of operational mode (off-grid, grid-parallel, back-up power)
- Certification authority request

