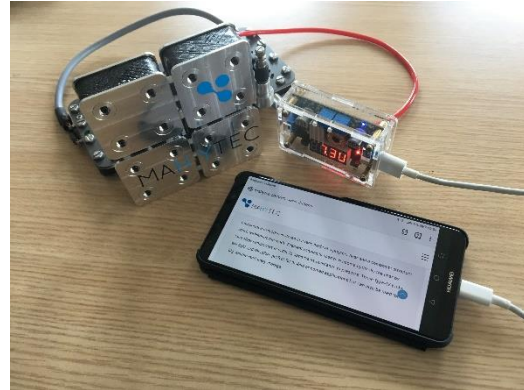


POLYMORPHIC HYDROGEN STORAGE

MAHYTEC offers a portable tank to supply on board energy



SERVICE CONDITIONS	
Hydrogen storage capacity	40NI
Temperature of use	From 20°C to 40°C
Temperature of storage	From 15°C to 40°C
Maximum working pressure	4barg (+/- 0.5bar)
Maximum refilling pressure	10barg
Minimum refilling temperature	10°C
Refilling time with cooling	≈ 1hour
DIMENSIONS	
Mass of empty tank	472gram
Dimensions (cm)	10 x 10
MATERIALS	
Hydride type	LaNi5
Body material	Aluminum carbon fiber

MAHYTEC offers a portable tank to supply on board energy

- Polymorphic and light-weighted hydride tank can be brought anywhere
- Restored energy equivalent as ten LR20 battery (143g)
- Rechargeable tank
- The combination of a hydrogen storage system and a fuel cell will deliver “on board” energy while adapting to the different needs

How does it work?

The technology implemented in this tank relies on the use of metal hydride: a metallic alloy that adsorbs and stores significant amounts of hydrogen at low pressure and room temperature. This flexible storage generates energy through its association with the fuel cell.

This new type of flexible storage makes it possible to meet the energy needs of an infantry man, or a hiker, or even a spelunker...