hydrogen battery

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acta POWERHT

ACTA POWER$_{HT}$

ACTA POWER$_{HT}$ is a self-recharging fuel cell system integrating ReliOn fuel cells and Acta electrolysers. Designed to be a logistics-free backup power solution powered by renewables that completely eliminates the need for refueling, while dramatically reducing overall operating costs and expensive maintenance visits, thereby saving operators both time and money.

ACTA POWER$_{HT}$ is a compact system containing a fuel cell, electrolyser, energy management and GSM communication.

ACTA POWER$_{HT}$ provides clean energy and allows users to drastically reduce size of batteries and avoid gensets thus eliminating fuel logistics, heavy maintenance, frequent substitution and fuel price uncertainty.

TECHNICAL DATA	ACTA POWER$_{HT}$ 500	ACTA POWER$_{HT}$ 1000
Fuel cell power output	2.5 / 5 kW	2.5 / 5 kW
Fuel cell stabilized voltage output	24 / 48V DC	
Electrolyser Hydrogen production	500 L/h	1000 L/h
Hydrogen storage pressure	30 bar	
Electrolyser voltage input	220V AC 50Hz – 48V DC	
Electrolyser power consumption	2,3 kW	4,5 kW
Fuel cell H2 consumption @ 80% power	730 NL per kWh	
Water specification (*)	<10 µS/cm	
Communication & Alarms: Remote monitoring and control	MODBUS over RS232/ Ethernet, dry contacts, GSM remote control, front panel display	
Operating temperature	From -5 to +50°C	
Cabinet dimensions (WxLxH)	800x1000x2100 mm	

Optionals available:

- Hydrogen storage tanks, 600L or 1 m^3 at 30 bar
- Water tank 300 liters
- Rain - tap water purification system
- Water collection system by air humidity condensation

Features:

- Self-recharging fuel cell system generating its own fuel from water
- Available with 2.5 or 5 kW power output
- Available both in indoor and outdoor versions, depending on applications (roof-top, urban, rural)
- Works grid-connected or with renewables (solar, wind) in both off-grid and on-grid applications
- Power management and wireless communication with webserver interface for complete remote system management and control. Modbus internal communication & dry contacts standard. GSM communication for remote control.
- Efficient, with the highest H_2 production efficiency and the lowest H_2 consumption per produced kWh

Acta Power Box$_{HT}$ features:

- 300L water tank, for the production of 375m^3 of hydrogen, equivalent to 560kWh
- 600L of hydrogen storage (at 30 bar), for the production of 25kWh of power
- Cabinet size including hydrogen and water storage (LxWxH): 2000x1000x2100
- Weight: 990kg
- 10 units can fit one 40’ container

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