



## AES500-1000

Acta's **500** and **1000** stacks produce dry, pure and compressed hydrogen at 30 bar.

This innovative technology, patented by **ACTA** and using a solid polymeric membrane, produces hydrogen of excellent quality at the low cost typical of liquid electrolyte electrolyzers. Acta's stacks can be used in electrolyzers for the distributed generation of hydrogen in industrial and vehicle applications, combined directly with intermittent renewable energy (*wind and solar*).

Lower need of FC anode purging cycles.

### FEATURES

- Produces compressed, pure, dry hydrogen at 30 bar
- Directly interfaced with renewable power sources
- Safe
- Compact
- Simple
- Low cost, competitive to liquid electrolyte systems

### HYDROGEN SPECIFICATION

H2 Purity: 99.94% @30 bar (*without purification system*)  
99.999% with optional purification system  
Purity residual: H<sub>2</sub>O @ 30 bar 600ppm

### WATER SPECIFICATION

Conductivity: <10 $\mu$ S/cm  
Supermarket grade, demineralised water  
(*rain water with optional filtration module*)

# AES500-1000

TECHNICAL DATA		AES500	AES1000
H2 production rate	NI/h	500	1000
Working pressure	bar	30	30
Purity of Hydrogen @ 30 bar	%	99,94	99,94
Water consumption	l/h	0,4	0,8
Water specification	$\mu\text{S}/\text{cm}$	<10 (at 25°C)	<10 (at 25°C)
Operative power consumption	W	2100	4200
Dimensions (WxDxH)	mm	180x180x340	360x180x340
Weight (without water)	kg	26	52

