

300L – 500 – 1000

# AES

Acta Energy's 300L, 500 and 1000 stacks produce dry, pure and compressed hydrogen at 30 bar.

Innovative technology, patented by ACTA and using 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 domestic, industrial and vehicle applications, combined directly with intermittent renewable energy (wind and solar).

## FEATURES

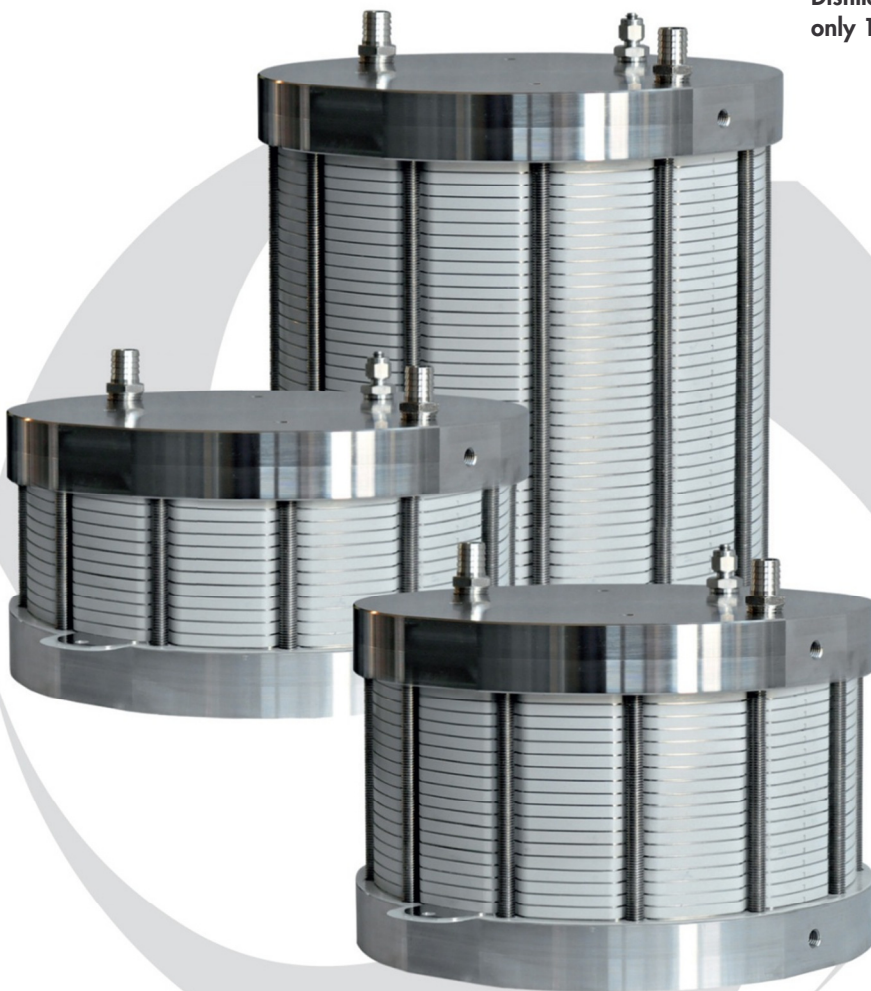
- Produces compressed, pure, dry hydrogen at 30 bar
- Directly interfaced with renewable power sources
- Safe
- Compact
- Simple
- Low cost, competitive to liquid electrolyte systems

## HYDROGEN SPECIFICATION

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

## WATER SPECIFICATION

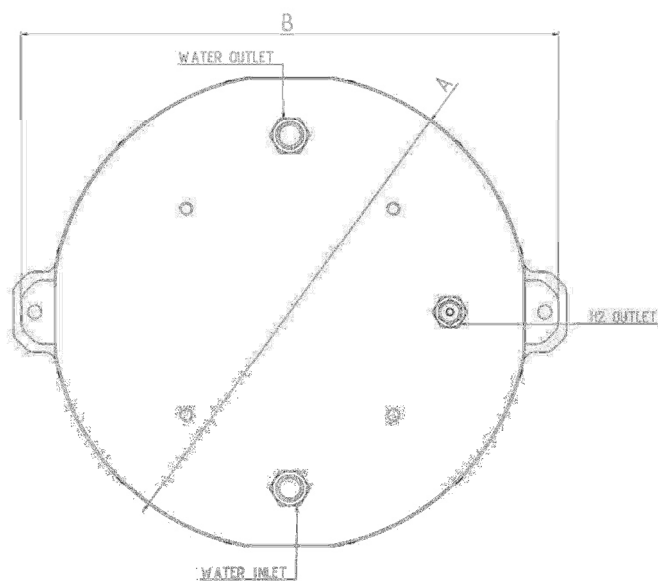
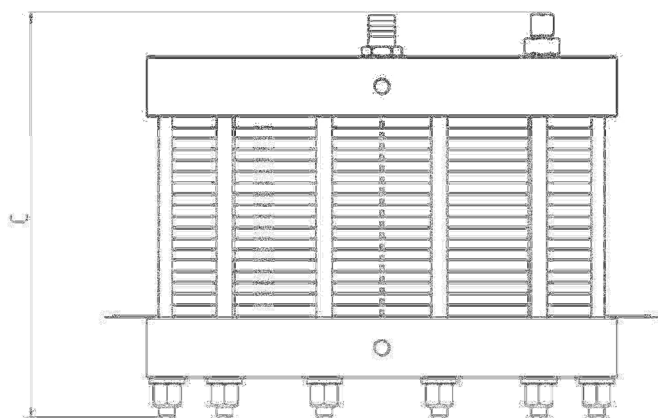
Distilled Water (Conductivity at 25 °C): 5 – 10 µS/cm  
only 1% Potassium Carbonate (non consumed)



TECHNICAL DATA		AES 300L	AES 500	AES 1000
H <sub>2</sub> production rate	Nl/h	300	500	1000
Standard working pressure	bar	15	15	15
Maximum allowable pressure	bar	30	30	30
Purity @30bar (1)	%	99.94	99.94	99.94
Purity with additional dehumifier	%	99.999	99.999	99.999
Water Consumption	l/h	0.25	0.40	0.81
Water Conductivity @ 25°C (2)	µS/cm	5-10	5-10	5-10
Power consumption	W	1590	2650	5300
Dimension - (AxBxC)	mm	300x340x206	300x340x255	300x340x381
Weight (without water)	Kg	53.0	60.0	78.0

(1) Without any purification

(2) Demineralized / distilled water only



### Acta S.p.A.

Via di Lavoria, 56/G - 56040 Crespina (PI) - ITALY P.O. Box 143 - 56021 Cascina (PI) - ITALY  
 Tel. +39 050 64 42 81 - Fax +39 050 64 22 51- info@actaspa.it - <http://www.actagroup.it>