

# EL 30 Electrolysers

for distributed hydrogen production

Electrolysers are key components for energy storage concepts in the context of renewable energy and hydrogen technology.

h-tec EL30 Electrolysers are ready-to-connect complete systems consisting of an electrolyser unit, a water treatment unit and a voltage transformer for connection to the grid. The core is a 30-bar PEM-Electrolyser Stack which – together with a special cooling system, a water recirculation array, the system controller, and an optional drying component – forms the electrolyser unit. Geared to the customers' requirements, our electrolysers are available with a maximum hydrogen production of between 0.3 m<sup>3</sup>/h and 3.6 m<sup>3</sup>/h. Each electrolyser configuration can be operated from 0 to 100 % of its power.

- Suitable for emergency power supply and applications in tele-communication
- Compact design and low weight
- Easy to install, operate and handle
- No calibration of sensors required
- Offers data recording for scientific analysis



## EL30 Specifications

		EL30/13	EL30/23	EL30/46	EL30/72	EL30/108	EL30/144
<b>PEM-Electrolyser Stack</b>	number of cells	13	23	46	72	108	144
<b>H<sub>2</sub> Production, max.</b> (wet, dew point < +4°C)	Nm <sup>3</sup> /h (kg/d)	0.33 (0.7)	0.58 (1.25)	1.2 (2.5)	1.8 (3.9)	2.7 (5.8)	3.6 (7.8)
<b>H<sub>2</sub> pressure</b>	MPa (bar)	3.0 (30)	3.0 (30)	3.0 (30)	3.0 (30)	3.0 (30)	3.0 (30)
<b>Rated power, beginning of life at 25°C ambient temperature (end of life)</b>	kW	1.8 (2.0)	3.0 (3.3)	5.9 (6.4)	9.1 (10)	14 (15)	18 (20)
<b>Power supply</b>	VAC	230	230	400	400	400	400
<b>Ambient temperature</b>	°C	4 to 50					
<b>Water preparation</b> (connection to tap water)		included					
<b>Dimensions</b>	mm (HxWxD)	1200 x 560 x 600			1200 x 560 x 800		
<b>Weight</b>	kg	120	125	130	160	170	180
<b>Communication</b>		2x USB, 2x CAN, 2x RS232, 1x Ethernet					
<b>Water connection</b>		G3/4" male screw thread					
<b>Gas connection</b>		G1/4" female screw thread					
<b>Options:</b>							
<b>H<sub>2</sub> drying:</b> H <sub>2</sub> production, max. (dry, dew point < -60°C)	Nm <sup>3</sup> /h (kg/d)	0.29 (0.63)	0.52 (1.10)	1.0 (2.3)	1.6 (3.5)	2.4 (5.3)	3.3 (7.0)
<b>Measurement options:</b>		H <sub>2</sub> -flow, H <sub>2</sub> - outlet pressure, H <sub>2</sub> -humidity					

Technical details and components are subject to change without notice. Printing errors reserved.