



# sungreen<sup>H<sub>2</sub></sup>

## DATASHEET SUNGREENH2 ELECTROLYZER SGH2-AE3S.1MW



### 1. SGH2-AE3S.1MW 1MW Electrolyzer; 500kg/day H<sub>2</sub>

<b>Production Rate</b>	233.33NM <sup>3</sup> /hr (500kg /day)
<b>Hydrogen Purity (Without Purifier)</b>	99.9%
<b>Hydrogen Purity (With Purifier)</b>	99.999%
<b>Output Pressure</b>	<35 Bar
<b>Efficiency (HHV)</b>	82%
<b>Stack Energy Consumption (per kg H<sub>2</sub>)</b>	48 kWh/kg
<b>System Energy Consumption (per kg H<sub>2</sub>)</b>	50.4 kWh/kg
<b>Power Supply</b>	3 Phase 400 VAC 50/60 Hz
<b>Minimum water input quality</b>	ASTM D1193-06 Type III, Recommended Type I
<b>Water Consumption</b>	<250 L/hr
<b>Water Input Pressure</b>	1-4 barg
<b>Ambient Operating Temperature</b>	5-45 °C
<b>Stack Operating Temperature</b>	60-70 °C
<b>Dimensions</b>	40ft ISO Container
<b>Cold Start Time</b>	<20 mins
<b>Hot Start Time</b>	Instant
<b>Turn Down Ratio</b>	10%
<b>Turn Up Ratio<sup>^</sup></b>	200%
<b>Electrolyte</b>	1M KOH (5.34wt%)
<b>Catalyst</b>	PGM-Free Material

<sup>^</sup> Efficiencies will reduce to 74% HHV (at 200% Turn Up Ratio)