



sungreen H₂

DATASHEET SUNGREENH2 ELECTROLYZER AES0002-2.1



1. AES0002-2.1 2kW electrolyzer; 1kg/day H₂

Production Rate (Nm ³ /h = @ 25°C & 1 ATM)	0.496Nm ³ /hr (1kg /day)
Hydrogen Purity (Without Purifier)	99.9%
Hydrogen Purity (With Purifier)	99.999%
Output Pressure	<10 Bar
Efficiency (HHV)	82%
Stack Energy Consumption per kg H ₂	48 kWh/kg
System Energy Consumption per kg H ₂	50.4 kWh/kg
Power Supply	3 Phase 400 VAC 50/60 Hz
Minimum water input quality	ASTM D1193-06 Type III, Recommended Type I
Water Consumption	<500 ml/hr
Water Input Pressure	1-4 barg
Ambient Operating Temperature	5-45 C
Stack Operating Temperature	60-70 C
Dimensions	120 x 80 x 130 cm
Weight	150kg
Cold Start Time	<20 mins
Hot Start Time	Instant
Turn Down Ratio	10%
Turn Up Ratio [^]	200%
Electrolyte	1M KOH (5.34wt%)
Catalyst	PGM-Free Material

* Voltages are Japan only. Step-up transformer will be included for voltage adjustment

[^] Efficiencies will reduce to 74% HHV (at 200% Turn Up Ratio)