



sungreen^{H₂}

DATASHEET SUNGREENH2 2kW AEM ELECTROLYZER UNIT



Production Rate	0.467NM3/hr (1kg /day)
Hydrogen Purity (Without Purifier)	99.9%
Hydrogen Purity (With Purifier)	99.999%
Output Pressure	<10 Bar
Efficiency (HHV)	87.5%
Stack Energy Consumption (per kg H2)	45kWh/kg
System Energy Consumption (per kg H2)	50kWh/kg
Power Supply	3 Phase 200 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*	Instant
Hot Start Time	Instant
Turn Down Ratio	10%
Turn Up Ratio^	200%
Electrolyte	1M KOH (5.34wt%)
Catalyst	PGM-Free Material

*Max performance achieved at 70°C

^ Efficiencies will reduce at 200% turn Up ratio