



sungreen^{H₂}

DATASHEET SUNGREENH2 1MW AEM ELECTROLYZER CONTAINER



Production Rate	233.33NM3/hr (500kg /day)
Hydrogen Purity (Without Purifier)	99.0%
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Output Pressure	<35 Bar
Efficiency (HHV)	87.5%
Stack Energy Consumption (per kg H2)	45 kWh/kg
System Energy Consumption (per kg H2)	50 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	<250 L/hr
Water Input Pressure	1-4 barg
Ambient Operating Temperature	5-45 °C
Stack Operating Temperature	60-70 °C
Dimensions	40ft ISO Container
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

^ Efficiency will reduce at 200% turn up ratio