



sungreen^{H₂}

DATASHEET SUNGREENH2 ELECTROLYZER SGH2-AE3S-20.1



1. SGH2-AE3S-20.1 20kW electrolyzer; 10kg/day H₂

Production Rate	4.67NM ³ /hr (10kg /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 H₂)	48 kWh/kg
System Energy Consumption (per kg H₂)	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	<5 L/hr
Water Input Pressure	1-4 barg
Ambient Operating Temperature	5-45 °C
Stack Operating Temperature	60-70 °C
Dimensions	10ft ISO Container
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

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