



sungreen H₂

DATASHEET SUNGREENH2 ELECTROLYZER AES0020-1.3



1. AES0020-1.3 20kW electrolyzer; 10kg/day H₂

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|---|---|
| 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)