

The 100MW Plant

Technical Specification Sheet

Performance

Hydrogen Output Flow <small>at peak, beginning of life</small>	1,900 kg/hr
Hydrogen Output Pressure	30 barg
Hydrogen Purity	> 99.9%
Operational Ramp Rate	1 MW per second
Plant AC Efficiency <small>beginning of life at 20°C and 1 atm, inclusive of all balance of plant losses</small>	51 to 54 kWh/kg

Parameters

Plant Area ₁	4,000 m ² (1 acre)
Ambient Temperature Range ₂ <small>hot weather plant and cold weather plant configurations available</small>	-20°C to 50°C

Inputs

Input Power Specification	30 to 35 kV AC, 3-phase 50/60 Hz
Total Power Requirement	110 MVA
Water Consumption <small>at peak production for entire plant, inclusive of cooling</small>	15 L/kg H ₂

Codes and Standards (selected):

ISO 22734:2019, NFPA2, NFPA70, CGA G5.5, UL 60079 series, ASME BPVC, Pressure Equipment Directive 2014/68/EU, ATEX Directive 2014/34/EU, IEC/AS60079

1 Excludes setback and maintenance allocations

2 Plant capacity derates linearly above 40°C

Electric Hydrogen is constantly innovating; specifications are subject to change

Reach out to learn more
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