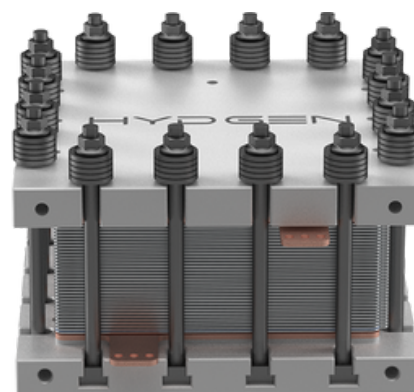


## 50kW AEM Stack

The HYDGEN 50 kW AEM stack is built for industrial users seeking up to 22 kg/day of on-demand hydrogen. It enables greater supply independence and is well-suited for sectors transitioning to on-site hydrogen production.



### Input

Stack Power Consumption	50kW
DC Power Consumption	4.8 ( rated Power ) kWh/Nm <sup>3</sup> H <sub>2</sub>
Feed Water Quality	≤10 μS/cm (ISO 3696:1987 Grade1)
Water Flow Rate	0.89 m <sup>3</sup> /h
Current Density	1 A/cm <sup>2</sup>
Cells	70 Pcs
Rated Current	400 A
Rated Voltage	128 V
Rated Temperature	50±5 °C
Ambient Temperature	10-40 °C

### Mechanical Parameters

Size (W×L×H)	420*420*250 mm
Weight	~300 Kg

### Output

Volume	10 Nm <sup>3</sup> /h
Mass	~ 20 kg H <sub>2</sub> /day
H <sub>2</sub> Output Pressure	~5 Barg
O <sub>2</sub> Side Pressure	~1 Barg
O <sub>2</sub> in H <sub>2</sub>	≤0.1 ( dry basis ) %
H <sub>2</sub> in O <sub>2</sub>	≤1 ( dry basis ) %
Purity	99.97%

### Performance Parameters

DC efficiency	75-82 %HHV
Start Up Time	10s/8min Warm/Cold
Response time	30s
Water Consumption	~4.29 L/h
Power Range	25~125 %
Design Life	40 000 hours