

Fuel Cell Power Station Specs



Fuel Cell Power Station

Dimensions: 670x510x385mm

Weight: 26KG

Built in wheels and pull handle

Fuel Cell Type: PEM - Air Cooled

Fuel Cell Power: 1,000W

Fuel Cell Voltage: 40-72VDC

Startup Battery: Lithium Ion

Voltage: 48VDC

Capacity: 13Ah

Inverter Power Rating: 5000W

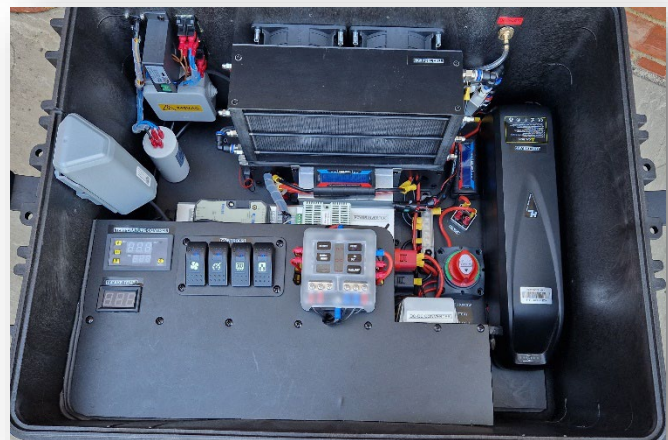
Internal Heater: 2 x 100W

Output Voltage: 230VAC

Remote Monitoring: LoRaWAN

Measured parameters

- External Temperature
- Internal Temperature
- Internal Humidity
- Battery Volts + Battery Amps
- Fuel Cell Volts + Fuel Cell Amps
- Pump Amps



Hydrogen Gas Requirements

Hydrogen Gas Purity: \geq Grade 4

Gas Pressure: 0.6-0.7 Bar

Flow Rate: 16 l/min nominal

Test Cylinder: Linde BOC Genie

Dimensions: 310 Ø x 660mm

Weight: 22.4KG

Gas Pressure: 300 Bar

Hydrogen Mass: 0.42KG



Test Water Pump

Pump Type: Submersible

Make: Stream

Model: SPB-750W

Output Flow: Up to 12,500 lph

Head Pressure: 8m

Voltage: 230VAC

Input Power: 750 Watts

Dimensions: 170 Ø x 330mm

Weight: 4.82KG



For cold room testing a simple water container will be used, such as the bucket shown (Dims: 490 Ø x 360mm, 42 litre)