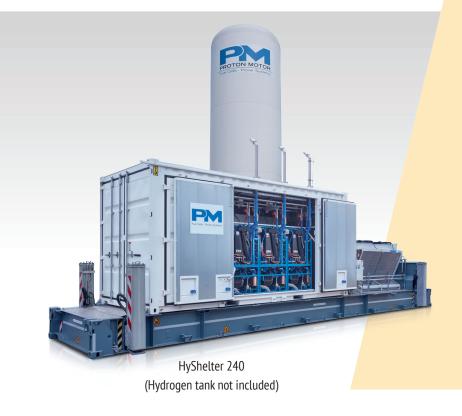
# **Proton Motor**Fuel Cell Stacks and Systems

### Cleantech Competence

# **FACT SHEET**

Stationary

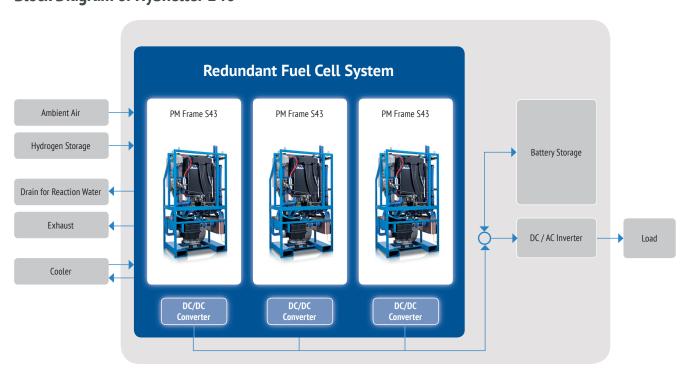


# **HyShelter 240**

Hybrid Turnkey Solution for Off-grid Power Supply

- Installed fuel cell system consists of 3 PM Frame S43
- Redundant fuel cell system, as each
   PM Frame can be controlled individually
- Fuel cell system for covering the base load and charging of battery system
- Installed battery system buffers load fluctuations and peaks
- Installation of the complete system on a truck trailer enables transport and location-independent operation

## **Block Diagram of HyShelter 240**



#### **KEY FACTS**



Installed Fuel Cell Power\* max. 127.8 kW



**Battery Storage** 180kWh

#### Output



Peak Power 240 kVA /1s Nominal Power 180 kVA Voltage 230/400 VAC, 50Hz



**Hydrogen Quality** ISO 14687:2019 (Type I, Grade D) /





**Hydrogen Supply Pressure** 

 $6-8 \, bar_{q}$ 



**Hydrogen Consumption** 

Max. 8.3 kg/h



**Ambient Temperature** 

-20°C to +40 °C



**Operation Altitude without** 

**Power Derating** 

< 2000 m



Humidity

< 95 % r.H. (non condensing)



**Dimensions** (incl. exhaust pipes) LxBxH 12.22 x 2.690 x 4.53 m

\* BoL, before DC/DC, w/o BoP

Specifications are subject to change without notice.
Specifications and descriptions in this document were in effect at the time of publication. Proton Motor Fuel Cell GmbH reserved the right to changes at any time

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#### **APPLICATION AREAS**



Seasonal Energy Storage



**Charging Stations** 



Off-grid Power Supply



Emergency Power Supply



**Grid Stabilization** 



#### REFERENCE

• Customer:

Shell Deutschland Oil GmbH

Application:

Off-grid power supply for an energy autonomous and mobile hydrogen fuelling station

• Location:

Dachau, Germany

Commissioning:

2022

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