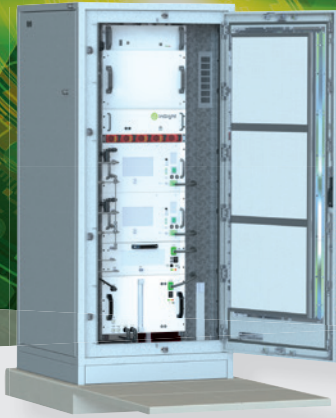


# FUTURE E H2O-EPS – COMBINED ELECTROLYSER- FUEL CELL EMERGENCY POWER SYSTEM

Produce. Store. Supply.



FutureE H2O-EPS

## Emergency power supply with local hydrogen production

The FutureE H2O-EPS extends the functionality of the FutureE fuel cell emergency power system with the option of local hydrogen production - simply top up with water.

Ideal for locations that are difficult to access, it provides reliable and emission-free emergency power - even in the most remote locations.

### Your advantages at a glance:

[info@future-e.com](mailto:info@future-e.com)

+49 (0)7022 789602-0

- **Independent hydrogen supply:** Constantly charged with hydrogen - hydrogen storage tank is automatically refilled via the electrolyser immediately after operation - no gas cylinder logistics required.
- **Simple refilling:** Operation can be ensured easily and cost-effectively by refuelling with DI water.
- **Flexible use:** Perfect for locations that are difficult or impossible to realise with conventional hydrogen supply or other fuels (diesel), e.g. in nature reserves or remote regions.
- **Self-sufficient locations:** Independent power supply ideal in combination with renewable energies such as photovoltaics or small wind power.
- **Innovative technology:** Alkaline membrane electrolyzers (AEM) in standard 19" format, for easy integration and reliable operation.



Mobile network



Remote Locations

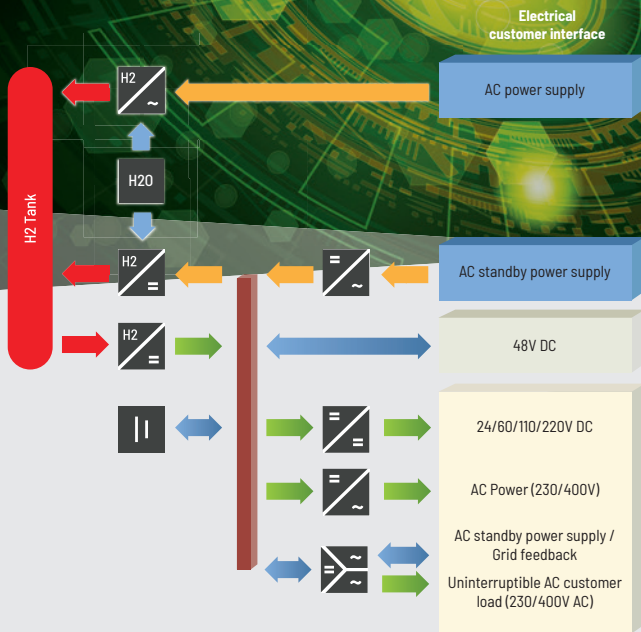


Infrastructure

# EMERGENCY POWER AND SELF-SUFFICIENT ENERGY SUPPLY

at remote locations

With the FutureE H2O-EPS energy system you enable the realisation of sites in areas difficult to access or in off-grid areas. The system is particularly suitable for nature reserves, mountain regions or places where hydrogen logistics are difficult to realise due to restrictions.



## Technical highlights:

### System cabinet

Dimensions (h x w x d)	2m x 0,9m x 0,9 m
IP-protection	IP 53
Ambient temperature	-20 to +50 °C
Nom. power supply/voltage	1000W@48 V DC or 230 V AC

### Fuel Cell Module

FC Power	2,5 kW/module @ 48V
Hydrogen consumption	60g / kWh or 670 NI/kWh
Efficiency	47,2 %

### Electrolyser Module

H2 production rate	500 NI/h/module
Nom./peak power supply	2,4 / 3,0 kW/module
Supply Voltage	48 – 60 V DC od. 230V AC
Dimensions (h x w x d)	266mm x 482mm x 635mm (6 U)
Di-Water consumption	~0,42 l/h @ 25°C
Outlet pressure	35 barg

### Water tank

Volume	38,5 l
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## FutureE GmbH

Hohes Gestade 8  
D-72622 Nürtingen

✉ info@future-e.com

☎ +49 (0) 7022 789602-0



More information:

future-e.com/en/h2o-eps