

ENERGY ANYTIME AND EVERYWHERE – POWERED BY FUEL CELLS

SUNFIRE-REMOTE 900



RELIABLE
POWER SUPPLY
FOR STATIONARY
OFF-GRID
APPLICATIONS



PRODUCT

The Sunfire-Remote series stands for off-grid power generators for industrial and governmental applications with an average electrical output of up to 850 watts or multiples in parallel operation. The units are based on solid oxide fuel cells (SOFC) and are perfectly suited for a reliable, durable and independent energy supply far away from the power grid. Using propane or natural gas they achieve electrical efficiencies of up to > 35%. Overall efficiencies of up to 90 % can be reached by utilizing heat optionally. As the fuel is converted electrochemically, noise occurs on a minimum noise level.

APPLICATIONS

Continuous and grid-independent power supply for various stationary applications:

- + Oil & Gas industry: pipeline monitoring and automation
- + Telecommunications: base stations and radio transmitter
- + Security: camera and access control systems
- + Meteorology: SODAR, LIDAR and RADAR systems
- + Off-grid buildings: electricity and heat supply

REFERENCES

Police stations

- + Surveillance vehicles in Germany
- + Speed measuring systems in Switzerland

Deutsche Bahn AG

- + Reliable, temporary power supply for a level crossing signal system with more than 14 months of uninterrupted operation

CORE FEATURES

- + **Highest efficiency:** low fuel consumption and reduced logistics costs
- + **Long maintenance intervals:** Continuous power supply for weeks or months
- + **Independent:** Off-grid power and heat supply at any time with low-cost propane from standard bottles and tanks
- + **Environmentally friendly:** Minimum emissions, quiet operation, no vibrations, no lubricants, no risk of pollution in case of leakage

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SUNFIRE-REMOTE 900 – TECHNICAL DATA



SUNFIRE-REMOTE 900

Electrical power	850 W
Daily electrical capacity	20.4 kWh
Electrical power nominal	350 – 850 W
Rated voltage	24 V _{DC} – varies with battery voltage between 21 – 29 V
Thermal Output	max. 1,250 W @ 850 W elec. via cooling circuit
Fuel	Propane/natural gas
Fuel consumption	part load 90 g/h – full load 210 g/h
Gas connection	1/2" male
Pressure of gas connection	15 – 50 mbar
Weight	150 kg
Dimensions	680 x 1,150 x 600 mm
Ambient temperature for operation	-20 °C to +40 °C
Water /lubricant consumption	none
Noise emission	< 50 db(A)
IP protection category	IP20
Communication	Ethernet TCP / IP
System scope	Sunfire SOFC core system, battery management, desulfurization cartridge
Essential accessories for operation	<ul style="list-style-type: none"> · liquid cooling circuit required · Exhaust system · Battery VRLA 24 V, > 300 Ah recommended