

ENERGY ANYTIME AND EVERYWHERE – POWERED BY FUEL CELLS

SUNFIRE-REMOTE 900



PRODUCT

The Sunfire-Remote 900 stands for off-grid power generation 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 level.

APPLICATIONS

Continuous off-grid power supply in stationary applications:

- + Oil & Gas: integrity monitoring and CCP systems
- + Telecommunication: microwave radio transmitters and private LTE
- + Security: CCTV, lighting, signals and power supply at construction sites

REFERENCES

Telecom

- + Permanent power supply for private LTE networks

Oil & Gas Russia

- + Reliable, power supply for a cathodic corrosion protection station

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 PROPANE	SUNFIRE-REMOTE 900 NATURAL GAS
Fuel	Propane	Natural gas
Electrical power	850 W	750 W
Max. daily electrical capacity	20.4 kWh / day	18.0 kWh / day
Electrical power nominal	350 – 850 W	350 – 750 W
Rated voltage	24 V _{DC} – varies with battery voltage between 21 – 29 V	
Thermal output	max. 1,250 W _{th} @ 850 W _{el}	max. 1,100 W _{th} @ 750 W _{el}
Fuel consumption	Part load: 110 g/h – Full load: 210 g/h	Part load: 0.14 m ³ /h – Full load: 0.27 m ³ /h
Gas connection	1/2" male	
Pressure of gas connection	18 ... 50 mbar	
Weight	185 kg	
Dimensions	605 × 680 × 1,120 mm	
Ambient temperature for operation	-20 °C ... +55 °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 accesories for operation	· liquid cooling circuit required · Exhaust system · Battery VRLA 24 V, > 300 Ah recommended	
Qualifications	CE; NRTL certification for North America pending	