

ENERGY ANYTIME AND EVERYWHERE – POWERED BY FUEL CELLS

SUNFIRE-REMOTE 400



PRODUCT

The Sunfire-Remote 400 power generator stands for an average electrical output of up to 350 watts. These systems based on solid oxide fuel cells (SOFC) have an electrical efficiency of up to 32 %, almost twice those of generators using petrol or diesel engines in this power class. Additionally, the systems do not emit any pollutants, just small amounts of carbon dioxide, and are very quiet while operating.

APPLICATIONS

Continuous off-grid power supply in stationary and semi-mobile 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

Deutsche Bahn AG

- + Reliable power for level crossing signal systems
- + 350 W SOFC system combined with PV

Mount Everest base camp

- + Power supply at a height of about 5,300 m
- + 2× 350 W SOFC system combined with PV

CORE ADVANTAGES

- + **Highest efficiency:** > 30 %_{el} leading to low fuel consumption and reduced logistics
- + **Reliability:** Suitable for harsh climatic conditions
- + **Long maintenance intervals:** Durable power supply for months
- + **Independent:** Off-grid power supply at any time with low-cost propane from standard bottles and tanks
- + **Environmental-compatible:** Low emissions, quiet operation without vibrations

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SUNFIRE-REMOTE 400 TECHNICAL DATA



R400	
Fuel	Propane / natural gas
Electrical power	350 W
Max. daily electrical capacity	8.4 kWh / day
Electrical power nominal	150 – 350 W
Rated voltage	24 V _{DC} – varies with battery voltage between 21 – 29 V
Thermal output	none
Fuel consumption	74 g/h ... 101 g/h (Propane) 0.08 ... 0.117 m ³ /h (Natural gas)
Gas connection	8 mm
Pressure of gas connection	18 ... 50 mbar
Weight	65 kg
Dimensions	660 × 540 × 400 mm
Ambient temperature for operation	-20 °C ... +55 °C
Water / lubricant consumption	none
Noise emission	< 55 db(A)
IP protection category	IP50
Communication	Ethernet TCP / IP
System scope	Sunfire SOFC core system, battery management, desulfurization cartridge, Exhaust tube 1 m
Essential accessories for operation	Battery VRLA 24 V, > 300 Ah
Qualifications	CE; NRTL certification for North America pending