

MOBILE ENERGY BASED ON LPG / NATURAL GAS

## SUNFIRE-REMOTE 400



SECURE AND  
ECONOMIC  
OFF-GRID POWER  
SUPPLY – BUY  
OR RENT YOUR  
FUEL CELL  
SYSTEM



### PRODUCT

The Sunfire-Remote series includes power generators which are very efficient converters for LPG or natural gas in the range of 400 to 1,200 watt. These systems based on solid oxide fuel cells (SOFC) have an electrical efficiency of up to 35 %, almost twice those of generators using petrol or diesel engines. 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 any stationary and mobile application:

- + Oil & Gas: monitoring and measuring systems
- + Telecommunication: radio transmitter
- + Security: emergency power systems, construction sites, wind turbines under construction

### REFERENCES

Deutsche Bahn AG

- + Reliable power for a level crossing signal system since November 2017 (> 14 months uninterrupted power supply)
- + 400 W SOFC system + PV

Mount Everest base camp

- + Supplying power to an infrared cabin of Physiotherm at a height of about 5,300 m
- + 800 W SOFC system + PV

### CORE ADVANTAGES

- + **Highest efficiency:** Up to 35 %<sub>el</sub> 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 at any time and any weather conditions
- + **Environmental-compatible:** Low emissions, quiet operation without vibrations

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## SUNFIRE-REMOTE 400 – TECHNICAL DATA



| SUNFIRE-REMOTE 400                  |   |
|-------------------------------------|---|
| Electrical power                    | 350 W   |
| Daily electrical capacity           | 8.4 kWh / day   |
| Electrical power nominal            | 150 – 350 W   |
| Rated voltage                       | 24 V <sub>DC</sub>  |
| Fuel                                | Propane / natural gas   |
| Fuel consumption                    | part load 74 g / h (0.95 kW) – full load 101 g / h (1.3 kW)                               |
| Gas connection                      | 8 mm  |
| Pressure of gas connection          | 15 – 50 mbar  |
| Weight                              | 40 kg   |
| Dimensions                          | 550 × 480 × 400 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, Exhaust tube 1 m |
| Essential accessories for operation | Battery VRLA 24 V, > 300 Ah   |