

AUTONOMY FOR OPERATIONS

SUNFIRE-REMOTE 400



PRODUCT

Sunfire-Remote 400 provides off-grid power to stationary or semi-mobile applications. An integrated IP interface for telemonitoring and long maintenance intervals enable unattended operation for more than a year. This makes Sunfire-Remote 400 ideal for use in secluded areas. Reliably, the compact unit operates at a temperature range from -20 to +55 °C (-40 °C on request).

APPLICATIONS

- + **Oil & Gas:** SCADA and communication systems, cathodic corrosion protection, remote-controlled gate valves at pipelines, etc.
- + **Security & Safety:** Video surveillance systems, access control, traffic control, etc.
- + **Telecommunications:** microwave radio repeater stations, private LTE / 5G tower, back-up power in extreme weather areas, etc.
- + **Further Applications:** Environmental monitoring, meteorology technology, drones, etc.

SELECTED PROJECTS

- + **Germany, Deutsche Bahn AG:** In various locations, Sunfire-Remote 400 powers traffic lights and barriers at level crossings during wintertime.
- + **USA, leading telecom network operator:** Combined with photovoltaic systems, Sunfire-Remote 400 ensures the operation of several microwave radio stations in Alaska.
- + **Tibet, Furtenbach Adventures GmbH:** For a whole season, Sunfire-Remote 400 supplied the Mount Everest Base Camp with energy. For this purpose, two units were adapted to the high-altitude air.

CORE ADVANTAGES

- + **Autonomous**
Low maintenance enables unattended operation > 1 year
- + **Durable**
Longest fuel cell lifetime in the market
- + **Robust**
Reliable primary power supply even under harsh conditions
- + **Easy**
Simple installation and operation
- + **Clean**
Environmentally friendly thanks to low emissions and low noise

SUNFIRE-REMOTE 400 – TECHNICAL DATA



SUNFIRE-REMOTE 400	
Fuel	Propane / Natural Gas
Electrical power	350 W
Max. daily electrical output	8.4 kWh / day
Typical power range (with batteries)	80 ... 1,500 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