

SUNFIRE-REMOTE POWERTRAILER/POWERBOX 1200

SEMI-MOBILE POWER GENERATION BASED ON PROPANE



PRODUCT

The Sunfire-Powertrailer and Powerbox are complete plug & play power supplies for off-grid applications. The units accommodate a Sunfire-Remote 400 Propane fuel cell generator, a PV panel, batteries, and five gas cylinders with 11 kg Propane each.

8 kWh per day can be generated over three weeks with the fuel on board. Peak loads of 1.2 kVA can be served for 4 hours per day with fully charged batteries at 230 VAC or even longer at 24 VDC.

APPLICATIONS

Continuous off-grid power supply for



+ Security: CCTV, cosotms observation, border control, access control

+ Safety: illumination, obstruction lights, speed cameras, traffic control, railroad signaling and barrier system



+ Telecommunication: emergency radio, first responders, microwave radio, private LTE

REFERENCES

German Railway DB AG

- + Reliable power for level crossings and signal systems during construction works
- + Listed supplier, operation in Germany since 2017

Wind Park Construction and Operation

- + Power supply for air traffic obstruction lights during installation phase or as long-term backup during blackouts
- + Listed supplier, verified in field operation in Germany, Spain, Scotland, Ireland since 2014

AUTONOMY DUE TO

+ Easy & Robust Operation:

Plug & Play solution with remote monitoring, no test runs, no water, widely available fuel

+ Long Maintenance & Refill Intervals:

up to 28 days until refill, no oil change, 30 minutes maintenance after max. 10,000 operating hours

LOW EMISSION

- + Less CO₂, no particulates, NO_x or SO_x, <50 dB* noise

* Can be reduced with optional noise adsorber.

SUNFIRE-REMOTE POWERTRAILER/POWERBOX 1200- TECHNICAL DATA



Sunfire-Remote Powertrailer 1200



Sunfire-Remote Powerbox 1200

	POWERTRAILER	POWERBOX
Electrical power max.	1.2 kVA at 230 VAC for 4 hours per day	
Daily generated energy	8 kWh DC or 7.5 kWh AC, plus solar yield of max. 1.5 kWh	
Average electrical power generation	300 W DC / 280 VA AC	
Rated voltage	24 VDC and 230 VAC, 50 Hz, optional others	
Fuel	Propane	
Fuel Consumption	2.5 kg per day at full power (reduced by PV)	
PV Generator	380 Wp	
Battery	AGM, 24 V 330 Ah	
Gas cylinders	5 pcs. German standard 11 kg cylinders	
Typical fuel autonomy	CCTV Surveillance - 6 weeks (50 W) Temporary Traffic Lights - 4 weeks (200 W) Microwave Radio Repeater Station - 3.5 weeks (300 W)	
Weight	550 kg	450 kg
Dimensions (LxWxH)	2,800 × 1,650 × 1,300 mm	1,850 × 1,300 × 1,000 mm
Ambient temperature for operation	- 20 °C to + 40 °C	
Noise emission	< 50 db(A) @ 1 m distance *	
IP protection category	IP 54	
Communication	TCP/IP, 4G, fuel low alarm	
Water / lubricant consumption	none	

* Can be reduced with optional noise adsorber.