



Smart Fuel Cell A25

The first commercially available Direct-Methanol-Fuel-Cell (DMFC).



Smart Fuel Cell A25 - universal and long-term energy supply

The great advantage of the Smart Fuel Cell A25 (SFC A25) is the extended energy output of the system. It delivers up to 50 Ah per day (600 Wh per day) and is suitable for various mobile, stationary and portable applications. The SFC A25 is safe, efficient and clean. It offers a huge weight reduction to lead acid batteries and is more reliable than solar panels, especially during the winter season. Compared to generators more silent and produces lower emissions.

Leisure: The SFC A25 solves the severe energy problems of recreational vehicles and sailing boats. To cover the energy demand of four entire days only one fuel cartridge of about 2,2 kg is required. A comparable energy content of lead-acid batteries weighs about 100 kg.

Remote Industrial: The SFC A25 increases the reliability of traffic and telecommunication systems, danger warning and weather stations. It also recharges batteries, wherever it might be required. For most of the applications the SFC A25 has a potential for significant cost savings.





Smart Fuel Cell A25 – Technical Data

Performance data

Continuous Output	25 W
Voltage	11,0 –14,4 V (compatible with standard lead acid batteries)
Methanol Consumption	1,5 Liter Methanol per kWh at continuous operation

Features

Operation Modes	On: automatic power supply Charge: automatic charging of an external 12 V-battery Silent: silent operation through integrated buffer battery
Peak Power Supply	Temporary up to 80 W through integrated 4 Ah battery buffer
Electrical Interface	12 V-standard connector DIN ISO 4165
Short-circuit Protection	Electronic cut-off (overload) and additional short-circuit protection 10 A, FF, Dimensions: 20 mm x 5 mm

Operating Conditions

Ambient Temperature	- 20 °C ... + 40 °C (- 4 °F ... + 104 °F)
Humidity	0% ... 100%

General data

Noise Emission	< 40 dB A (at 1m distance) during operation
Dimensions (max. WxHxD)	465 mm x 290 mm x 162 mm
Weight	9,7 kg including fuel cartridge

Fuel Cartridge

Containment	2,5 liters exchangeable plastic container with safety lock, certificate “safety tested” awarded by the German TUEV*
Weight	2,2 kg

*TUEV is one of the leading European certification authorities