



SFC A50 M



■ SFC A50 Fuel Cell system

- 50 W continuous power supply
- Over 70 hours of operating with one cartridge of 5 Liter
- Full compatibility to existing battery powered and photovoltaic systems
- Automatic recharge of batteries

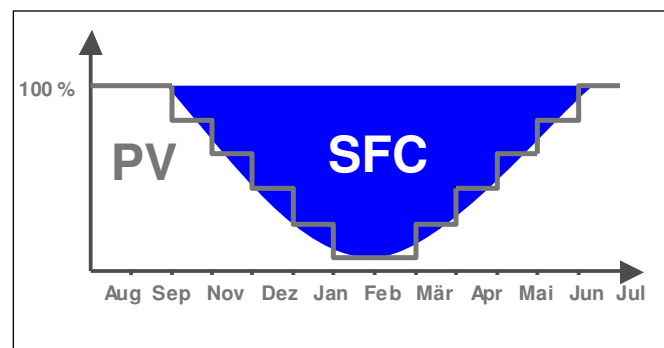
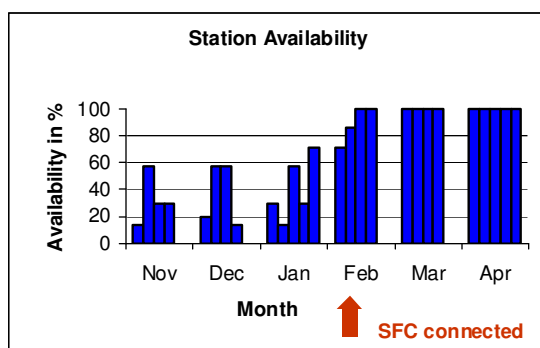


■ Complete Data Monitoring Interface

- Live access to SFC A50 internal system parameters e.g. stack voltage, stack current, temperatures
- Delivers all necessary information for evaluation, testing and system integration.

■ Customer Benefits

100 % availability and 100 % reliability



The SFC A50 closes the power gap of conventional photovoltaic systems in winter and allows 100 % availability of remote sensors.

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■ **Applications**

- **Logistics**
Vehicle batteries charged throughout the logistics chain, online tracking and surveillance of containers
- **Off-grid Power Supplies**
Traffic control, toll systems, security, data acquisition, telecommunication and water industry
- **Security**
Remote sensors, cameras, robots and lasers for danger detection and warning, communication and surveillance
- **Auxiliary power for special vehicle applications**
Police and emergency cars for professional use. In recreational vehicles and sailing boats for the leisure market

■ **Various field tests completed**

- SFC as photovoltaic backup in remote sensors
- Challenging environmental conditions minus 25 °C outside temperature and traffic emissions
- 100 % user satisfaction

■ **Technical Data**

General data Fuel Cell System SFC A50 M

Output power rating	50 W
Voltage	10.5 – 14.5 V, compatible with 12 V lead-acid batteries
Fuel	standard version: 100 % Methanol optional version for Japanese market: 90 % Methanol-Mix
Rated consumption	approx. 1.3 liters (0.34 US gal) of Methanol per kWh
Noise emission	47 dB(A) at a distance of 1 m during fuel cell operation
Dimensions (WxHxD)	380 x 260 x 150 mm (14.96 x 10.23 x 5.9 in)
Weight	approx. 8 kg (17,6 lb)
Operating temperature	-20 °C ... +40 °C (4 °F ... 104 °F); with auxiliary isolation to -35 °C (- 31 °F)
Storage temperature	+1 °C ... + 45 °C (34 °F ... 113 °F)
Humidity	20% ... 90%

Fuel cartridges

M5	4 kWh	5.0 Liter (1.3 US gal)	4.2 kg	(9.3 lb)
M10	8 kWh	10.0 Liter (2.6 US gal)	8.2 kg	(18.1 lb)

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