

*EFOY Pro Fuel Cell  
Idle-Free Surveillance and Observation*



*Mobile On-Board Power Anywhere and Anytime*

- 🔋 *Long Autonomy – Long Mission Duration*
- 🔋 *100% Reliability*
- 🔋 *Non-Detectable*

*Case Study Surveillance – Mobile Surveillance*

**EFOY**  
ENERGY FOR YOU

# Ensure Power Supply for Mobile Operations



## The Application:

Many governmental vehicles need on-board power for many days and weeks to supply on-board electronic devices used for example to capture images or audio and to process this data to a command control vehicle or recording device.

Power demand: Between 15 W (single digital camera) and 150 W (multi-channel video processing and transmission including IR lighting)

Autonomy demand: Ranging from 10 hours to complete a one-day shift to up to 12 weeks for covert surveillance operations

Areas of Application:

- Border Patrol, Customs, command and control vehicles, ambulances, covert surveillance, and many more

## The Challenge:

Long autonomy is needed to avoid turning on the engine, ensuring positive mission results of undercover operations, flexibility and safety for the operators of the equipment. The energy source has to fit in a standard passenger car, without producing signature.

## The Solution:

Up to two EFOY Pro fuel cells are directly connected to the on-board battery, charging it on demand. Electronic devices are connected to the on-board battery, supplying 12 V DC and if necessary 230 V AC current.

## The Benefits:

- **Long Autonomy – Long Mission Duration** – With EFOY Pro on board you can connect up to two M28 fuel cartridges containing 5,200 Ah (at 12 V) of energy in total, providing power for up to 50 weeks, powering devices with a total consumption of 50 W.
- **100% reliability** – Ensured by hybrid operation of battery and fuel cell. The battery is continuously being monitored and recharged by the EFOY Pro fuel cell. Additionally, the battery also buffers the fuel cell in case the fuel cartridge runs dry. In addition remote monitoring and pre-warning of empty cartridge feature can be equipped to the EFOY Pro fuel cell by using a GSM module.
- **Non-detectable** – The EFOY Pro fuel cell is suitable for silent-watch operations. A running fuel cell inside a car cannot be recognized from the outside. No vibrations, noise, exhaust or heat is detectable.

➔ *EFOY Pro fuel cell is an ideal power source for powering on-board equipment for many weeks, emission- and idle-free.*



## References:

### German Federal Office for Goods Transport:

Since 2009: over 400 vehicles are equipped with EFOY Pro fuel cells for on-board power supply ensuring anti-idling and increasing flexibility of vehicle fleet.

Several other state and federal law enforcement organizations throughout Europe and the US are using the EFOY Pro fuel cell as mobile and on-board power supply for mobile office equipment and covert surveillance.



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