



Off-grid power supply for mobile security towers



EFOY Pro fuel cells integrated into the TelescopicMast surveillance tower:

- Off-grid installation
- Output up to 125W
- Long operating Life
- Maintenance-free
- Quiet and Eco-friendly

EFOY Pro fuel cells makes it possible to install a TelescopicMast in the most remote locations and ensures continuous surveillance of the sites to be monitored.

By using surveillance towers with integrated EFOY Pro fuel cells, customers can reduce their operating costs (e.g. for security personnel) by up to 60%.

EFOY Pro fuel cells is the ideal power supply solution for this application. The fuel cell reliably supplies all equipment with power, thereby providing off-grid 24/7 monitoring.





There are many reasons to use EFOY Pro fuel cells.

EFOY Pro fuel cells are the perfect power generator, meeting all requirements for stationary and mobile applications.

100 % power availability based on hybrid switch from battery to fuel cell. The EFOY & EFOY Pro fuel cell constantly monitors the charge status of the battery and automatically charges it. This means your application is always reliably supplied with power.

EFOY Pro fuel cells supply off-grid power for months – without any user intervention. The fuel cells use methanol – an alcohol with an extremely high energy density. Ten litres of methanol contain 11.1 kWh of energy. Four 28 litre fuel cartridges can power a 50W device autonomously for about 26 weeks.

Fuel cells are quiet and environmentally friendly and during operation, the sole by-products are small quantities of carbon dioxide and water. Thanks to the environmentally friendly power generation, the fuel cells can be used in nature reserves as well as in closed vehicles and rooms. The EFOY fuel cells are equally suitable for covert investigations, thanks to their low-vibration and quiet operation without heat generation.

EFOY fuel cell model overview:

	EFOY 80	EFOY 150	EFOY Pro 900	EFOY Pro 1800	EFOY Pro 2800
Max. output:	40W	75W	42W	82W	125W
Nominal voltage:	12/24V DC	12/24V DC	12/24V DC	12/24V DC	12/24V DC
Weight:	6.5 kg	6.9 kg	6.5 kg	7.2 kg	7.8 kg
Operating temperature:	-20° to +40° C	-20° to +40° C	-20° to +50° C	-20° to +50° C	-20° to +50° C
Performance classes of the EFOY fuel cells:	40W Temporary applications	75W Temporary applications	42W Continuous operation	82W Continuous operation	125W Continuous operation

Dimensions L x W x H: 448 x 198 x 275 mm.

Connectable fuel cartridges: 1 (up to 8 with EFOY Fuel Manager).

Fuel: Methanol in EFOY fuel cartridges.



Example of consumption:

With 50W continuous load, the EFOY PRO 2800 can run for 26 days on 1 x 28 l methanol cartridge.

For even more autonomy, you can connect up to 4 x 28 l methanol cartridges to the fuel cell for a total of 104 days runtime.

EFOY fuel specifications:

Fuel cartridges:	M10	M28	MT60
Capacity:	10 l	28 l	60 l
Weight:	8.4 kg	23.4 kg	55.0 kg
Electrical nominal capacity:	11,1 kWh	31,1 kWh	66,7 kWh
Autonomy @50W:	9 days	26 days	55 days