



EMILY 3000

Mobile power source for electrical devices
in command and multipurpose vehicles

-  Virtually no detectable signature
-  Increased sustainability
-  Fully automatic



Solutions, features and references

On vehicles, supplying power to sensors, radio, surveillance and defence systems that are integrated in the vehicle required starting the engine or a noisy generator had to be used. This is a high risk for camouflage and often leads to early detection.

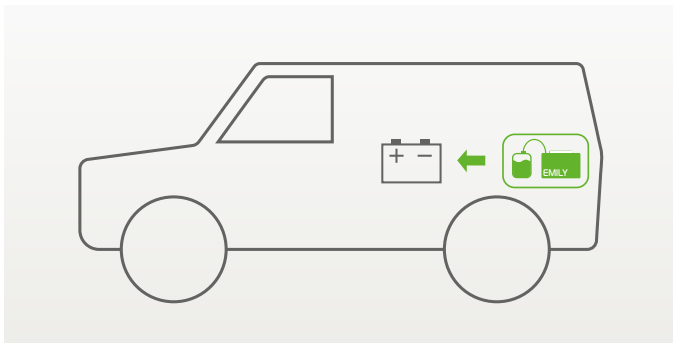
The EMILY fuel cell charges the on-board battery automatically, quietly and without being detected. It guarantees operation of the loads even when the engine is turned off. Therefore, camouflage remains intact.

EMILY 3000 is able to charge modern lithium ion and lithium polymer batteries, as well as the conventional lead batteries.

EMILY 3000 is characterised by virtually signature-free, silent and emission-free operation, therefore making it the modern task forces' number one choice.

Away from the vehicle, it is also suitable as a mobile field-based charging station for batteries.

Application



Overview

- Virtually silent operation compared to conventional generators
- Running an engine is not required to charge the batteries.
- Numerous loads can be supplied with power simultaneously
- Significant reduction in vehicle maintenance and operating costs thanks to battery life extension and reduced engine operating hours
- Fully automatic charging without loss
- Ensuring reliable power during deployment
- Simple and fast integration
- Can be used as an on-board battery charger and as a mobile field-based charging station
- EMILY 3000 as well as the fuel cartridges have a NATO supply number
- The fuel cartridges are approved for air transport in accordance with UN3473
- EMILY 3000 can also be used as a separate power supply



Technical data	
Charging performance per day*	3000 Wh
Nominal power	125 W (Beginning +10% / After 3000 hrs -10%)
Nominal voltage	12 V / 24 V / 9.5 V - 16.5 V DC
Nominal current @ 12 V / 24 V*	10 A (limited) / 5.2 A
Weight	12.5 kg
Dimensions L x W x H	476 x 206 x 286 mm
Operating time with 10 l fuel cartridge*	~ 88 hours at 3000 Wh/day
Operating temperature	-25 °C to +50 °C
Military ruggedisation & electromagnetic compatibility	MIL-STD

*All technical data under test conditions 20 °C / 68 °F.

Fuel cartridges	M10	M28
Volume	10 l	28 l
Weight	8.4 kg	23.4 kg
Electrical nominal capacity	11.1 kWh	31.1 kWh
Dimensions L x W x H	230 x 193 x 318 mm	370 x 285 x 403 mm

Weight reduction

Energy contents of the fuel cartridge compared with 80 Ah lead batteries

 <p>1 x M10 = 8.4 kg</p>	 <p>12 x 80 Ah battery = 321 kg</p>
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Subject to changes. Errors expected. 1507-v2 / 650901074

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