SFC 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 systems like sensors, radio, surveillance and other systems require a running engine or a noisy generator. This can lead to early detection in the field.

The SFC EMILY 3000 fuel cell charges the on-board batteries automatically, quietly and without being detected. It guarantees operation of the appliances even when the engine is turned off. Therefore, camouflage remains intact.

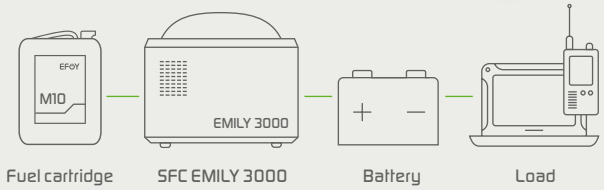
The SFC EMILY 3000 is able to charge modern lithium ion and lithium polymer batteries, as well as the conventional lead batteries. The SFC EMILY 3000 is characterised by virtually signature-free, silent and emission-free operation, therefore making it the modern task forces' number one choice.

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

Overview

- Virtually silent operation compared to conventional generators
- Running an engine is not required to charge the batteries
- Nummerous 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 user intervention
- Ensuring reliable power during deployment
- Simple and fast integration
- The SFC 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
- The SFC Emily 3000 can also be used as a stand-alone power supply
- Reduction in fossil fuel footprint and fuel convoy dependency

Application



Technical data

Charging performance per day*	3000 Wh
Nominal power	125 W (Beginning +10 % / After 3000 hrs -10 %)
Nominal voltage	12 V / 24 V
Nominal current @ 12 V / 24 V*	10 A (limited) / 5.2 A
Weight	12,5 kg / 27.6 lbs
Dimensions L x W x H	476 x 206 x 286 mm 18.7 x 8.1 x 11.3 in
Operating time with 10 l*	up tp 88 hours at 3000 Wh/day
Operating temperature	-25 °C to +50 °C -13 °F to 122 °F
Military ruggedisation & electromagnetic compatibility	MIL-STD

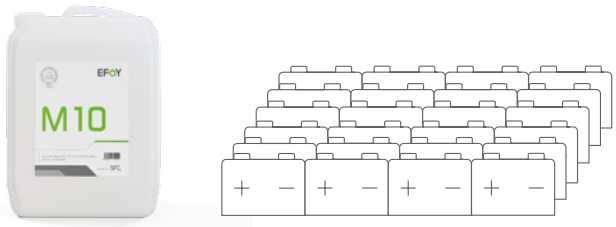
*All technical data under test conditions 20 °C / 68 °F.

Fuel cartridge	M10	M28[1]
Volume	10 l / 2.6 gal	28 l / 7.4 gal
Weight	8,4 kg / 15.5 lbs	23,4 kg / 51.6 lbs
Electrical nominal capacity	11.1 kWh	31.1 kWh
Dimensions L x W x H	230 x 193 x 318 mm 9.1 x 7.6 x 12.5 in	370 x 285 x 395 mm [2] 14.6 x 11.2 x 15.6 in

[1] M28-Adapter required
[2] Height with M28-Adapter: 425 mm

Weight reduction

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



1 x M10 = 8.4 kg / 15.5 lbs

24 x 80 Ah battery = 460 kg / 1.014 lbs

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SFC ENERGY