

EMILY 3000 Fuel Cell Generator

EMILY 3000 is SFC's most powerful fuel cell generator. In comparison to EMILY 2200, nominal power output has increased about 35 %. With the new Generation EMILY, even Li-Ion and Li-Polymer batteries can be charged. As in before, EMILY is the ideal on-board power supply for military command and multipurpose vehicles. Additionally, EMILY 3000 can be connected to the SFC Power Manager 3G in order to charge batteries in the field. EMILY 3000 has been certified for military use.



Technical Data	
Max. charging power per day	3000 Wh/d
Nominal power	125 W (BoL + 10 %/ EoW - 10 %)*
Nominal voltage	12 V / 24 V / 16 V/ 9.5 V - 11.5 V
Nominal charging current	10.4 A / 5.2 A / 7.8 A / 8 A (limited)
Recommended type of batteries	Lead-acid battery/ Li- Ion 3.4 and 7 cell/ 3 cell Li-Polymer
Weight	< 27.6 lbs (12.5 kg)
Dimensions L x W x H	18.7 x 8.1 x 11.2 inches (476 x 206 x 285.5 mm)
Methanol consumption	≤ 0.9 l/kWh
Display	Alphanumeric LCD and Pushbutton (Remote control optional)
Data-Interface	MIL-C-5015 / VG 95234-20-11 SV (RS-232) MIL-C-5015 / VG 95234-20-8 PN (Power)

* EoW = End of Warranty

Environmental characteristics	
Operating temperature	-13 °F to 122 °F (-25 °C to +50 °C) MIL-STD 810F, table 501.4-I, cyclic operation
Start up temperature	34 °F to 122 °F (+1 °C to +50 °C)
Storage temperature	-24 °F to 160 °F (-31 °C to +71 °C)
Warranty	3000 Operating hours or 2 years
Humidity	0 to 100 %
Water protection	MIL-STD 810F Method 506.4, Procedure I Operation under heavy rainfall
Dust	MIL-STD 810F Method 510.4, Procedure I and Procedure II
Vibration	MIL-STD 810F Method 514.5, Table 514.5C-VII, Figure 514.5C-3 AECTP 400 B401 light tracked vehicles
Drop	MIL-STD 810F Method 5146.5, Procedure IV
Altitude	Up to 10,000 ft (3000 m) @ 100 % Nominal power Up to 13,000 ft (4000 m) @ 80 % Nominal power
Surface temperature	MIL-STD 1472F Table XXI
Noise emission	MIL-STD 1474D Table 2-II > 30 m non detectable
Inclination Roll- / Lateral-axis	Lateral-axis: permanent 35° / temporary 45° Roll-axis: permanent 20°

EMILY 3000	Item number
EMILY 3000 Set – incl. Accessories	151 000 091
EMILY 3000 – excl. Accessories	151 002 091

Delivery content EMILY 3000
EMILY 3000 Fuel cell system
User manual
Service Fluid, 100 ml
Battery cable
Airfilter
Exhaust tube

Optional Cables	Item number
Battery cable – 2 Meter	151 906 027
Data cable – 2 Meter	151 906 029
Remote control cable – 2 Meter	151 906 030
Data- / Remote control Y-cable – 2 Meter	151 906 032
Remote control cable- 5 Meter	151 906 031
Data / Remote control Y-cable – 5 Meter	151 906 033
Data cable accessory – 2 Meter	151 906 036
Cable EMILY to PM3G	905 906 224

Accessories	Item number
Airfilter	151 046 010
Rugged remote control	151 077 038
Insulation exhaust tube	151 095 068
Service Fluid, 100 ml	151 903 001
Exhaust tube	150 904 004
Fuel cartridge holder incl. strap	150 905 002
Strap for fuel cartridge holder	150 905 007
Adapter M28	151 906 012
USB-Adapter	151 906 018
GSM-Modem GSM-2	151 906 019
Duo cart switch DCS-I	151 000 189
Mounting plate incl. shock absorbers	151 908 014
Cluster Controller CCI	151 076 058
Fuel cartridge sensor	151 905 006

Fuel cartridges	M10	M28
Item number	150 905 008	150 905 040
Volume	10 l	28 l
Weight	8.4 kg	22 kg
Capacity	11.1 kWh	31.1 kWh
Operating temperature	-13 °F to 122 °F [-25 °C to +50 °C]	-13 °F to 122 °F [-25 °C to +50 °C]
Dimensions L x W x H	230 x 193 x 318 mm	370 x 285 x 403 x mm

Subject to change; Rev 05-2013

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