

# 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 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.



Technical Data <sup>[1]</sup>	
Max. charging power per day	3000 Wh
Nominal power	125 W (Beginning +10 % / After 3000 hrs -10 %)
Nominal voltage	12 V DC / 24 V DC / 9.5 V - 16.5 V DC
Nominal charging current	10 A (limited) / 5.2 A
Adjustable type of batteries	Lead batteries 12 V / 24 V / Li- Ion (BB-2590-U / BT-70884)/ Li-Polymer (3 cell)
Weight	27.6 lbs / 12.5 kg
Dimensions L x W x H	18.7 x 8.1 x 11.2 in / 476 x 206 x 286 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)
Electrical-Interface	MIL-C-5015 / VG 95234-20-8 PN (Power)

Environmental characteristics	
Operating temperature	-13 °F to 122 °F / -25 °C to +50 °C MIL-STD-810G Method 501.5 High Temperature, Table 501.5-III MIL-STD-810G Method 502.5 Low Temperature
Start up temperature	+34 °F to +122 °F / +1 °C to +50 °C
Storage temperature	-25 °F to +160 °F / -32 °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 516.5, 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 > 98 ft / 30 m non detectable
Inclination Roll- / Lateral-axis	Lateral-axis: permanent 35° / temporary 45° Roll-axis: permanent 20°
Electromagnetic compatibility (EMC)	VG 97010-2 (GWK II/ESD 15 kV)

<sup>[1]</sup>All technical data under test conditions 68 °F / 20 °C.

Fuel cell	Item number	NSN Number
EMILY 3000 Set – incl. Accessories	151 000 093	-

Content of delivery EMILY 3000 Set
EMILY 3000 fuel cell system
User manual EMILY 3000
Service Fluid, 100 ml
Battery cable
Air filter
Exhaust tube

Accessories	Item number	NSN Number
Air filter	151 046 010	2940-12-382-0764
Rugged remote control	151 077 038	6116-12-382-0075
Insulation exhaust tube	150 903 001	6810-12-383-1616
Service Fluid, 100 ml	150 904 004	4720-12-383-1475
Exhaust tube	151 095 068	4720-12-382-0982
Fuel cartridge holder incl. strap	150 905 002	5340-12-383-1788
Strap for fuel cartridge holder	151 908 026	-
M28-Adapter	151 905 012	6116-12-386-0055
USB-Adapter	151 906 018	7050-12-385-9700
GSM-Modem GSM-2	151 906 019	5820-12-386-0665
DuoCartSwitch DCS1	151 000 189	6116-12-386-0226
Mounting plate incl. shock absorbers	151 908 014	2510-12-383-2834
Cluster Controller CC1	151 076 058	6110-12-384-7139
Fuel cartridge sensor	151 905 006	6680-12-386-0059

Optional Cables	Item number	NSN Number
Battery cable – 2 Meter	151 906 027	6150-12-382-0137
Data cable – 2 Meter	151 906 029	6150-12-382-0132
Remote control cable – 2 Meter	151 906 030	6150-12-382-0133
Data- / Remote control Y-cable – 2 Meter	151 906 031	6150-12-385-9645
Remote control cable- 5 Meter	151 906 032	6150-12-383-2143
Data / Remote control Y-cable – 5 Meter	151 906 033	6150-12-385-9699
Data cable accessory – 2 Meter	151 906 036	6150-12-384-7138
Cable EMILY to PM3G	On request	-

Fuel cartridges	M10 Regular	M28 Regular (only with M28-Adapter)
Item number	303 905 098	303 905 096
NSN Number	6810-12-382-0394	6810-12-382-0397
Volume	2.64 US gallons / 10 liter	7.4 US gallons / 28 liter
Weight	18.5 lbs / 8.4 kg	48.5 lbs / 23.4 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	9.1 x 7.6 x 12.5 in / 230 x 193 x 318 mm	14.6 x 11.2 x 15.9 in / 370 x 285 x 403 mm with M28 Adapter: 14.6 x 11.2 x 16.7 in / 370 x 285 x 425 mm