



SFC Power Manager 3G

Portable and intelligent power management for maximum flexibility and autonomy during missions



Reduced weight



Extended runtime



Increasing reliability of energy supplies



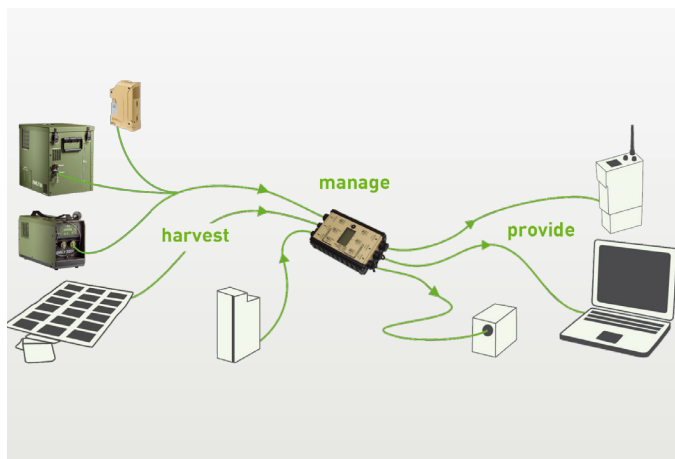
Soldiers in the field have high energy demand to reliably power their electronic equipment. To date, they had to carry an increasing amount of heavy batteries to ensure power availability. With SFC Power Manager 3G, the amount of spare batteries to be carried can be reduced considerably. The intelligent power management device allows soldiers to make use of all power sources available in the field, e.g. batteries, solar modules, vehicle power

and of course fuel cells, to recharge batteries and to power electronic devices.

Thanks to intelligent cable recognition, SFC Power Manager 3G can adapt its output voltage automatically to the requirement of connected devices.

Various generations of SFC Power Managers are already in use by the US Air Force, the German Armed Forces and several other defense organisations.

Technical Data



All military fuel cells by SFC are designed to function as power source for SFC Power Manager 3G.

Therefore, portable applications can be operated by a so called SFC Energy Network - for example with a JENNY fuel cell generator. Since 2010, the German Armed Forces equip soldiers in the field with portable SFC Energy Networks, consisting of an SFC Power Manager 3G, a JENNY 600S fuel cell generator, a foldable solar panel and matching cables.

In vehicles, EMILY 3000 can be connected to SFC Power Manager 3G as mobile power source and power multiple devices inside the vehicle simultaneously.

As remote field charger, an energy network consisting of EMILYCube and SFC Power Manager 3G is the ideal solution.

All combinations with SFC Power Manager 3G enable tremendous weight savings, while intelligent power management gets the best out of the different energy sources.

Technical data

Weight	520 g / 1.15 lbs
Dimension L x W x H	162 x 95 x 36 6.38 x 3.74 x 1.42 in
Display	LCD full text
Ports	2 high-power I/O's 2 power harvesting ports I/O's 2 power outputs
Voltage range	8 - 33 V DC
Current range	5 A / 13 A
Power range	65 W / 430 W
Cable identification	One-wire chip
Port protection against	Over-voltage Over-current Short circuit Reverse polarity Over temperature

Environmental characteristics

Operating temperature	-32 °C to +55 °C -24 °F to +131 °F
Water protection	MIL-STD 810F Method 506.4, Procedure I and II - submersible to 1 m for 2 hrs.
Sand and dust	MIL-STD 810F Method 510.4, Procedure I
Vibration	MIL-STD 810F Method 514.5 Category 5, 8 and 20
Drop	MIL-STD 810F Method 516.5, Procedure I and IV
EMI / EMC	VG 95373 Class II

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