



SFC Energy Network

Portable power supply and distribution for the mission



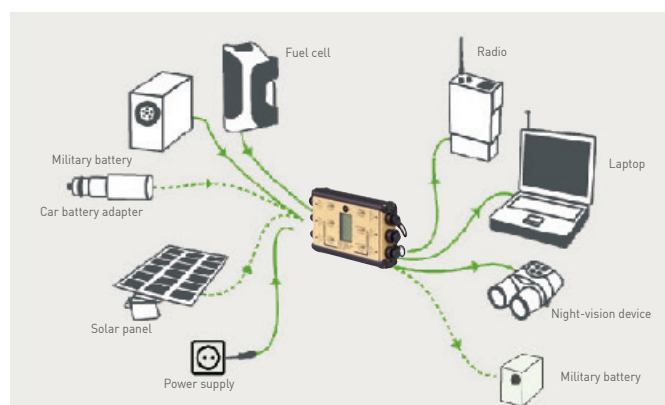
Weight reduction



Plug & Play solution



Increased endurance



Solutions, features and references

In order to supply modern field personnel with electricity, a portable, reliable power supply is required. After all, missions can last for several days or even weeks.

An enormous weight of batteries must be carried to reliably power a soldier's equipment during this time. The Network consists of diverse current sources and distributors and can charge batteries quietly and fully automatically or directly charge electrical distributors in the field.

When combined with the SFC Power Manager 3G, multiple devices can be used very efficiently at the same time. The benefits of these systems include a significant reduction in the number of batteries each soldier must carry (over 75%

weight savings for a 72-hour mission), a barely detectable noise and heat signature and virtually maintenance-free operation. The system considerably reduces specific operating costs and logistics requirements.

The SFC Energy Network has already been in operation for many years and is currently in use with the German armed forces, among others. With a rated power of up to 50 watts, the JENNY fuel cell series from SFC Energy is currently used in many defence and safety applications — the JENNY 600S fuel cell (25 Watt) already has a NATO supply number.

Application



The Network from SFC Energy in operation.

Overview

- The fuel cell reliably and fully automatically provides power for multi-day missions
- In combination with the SFC Power Manager 3G, various battery types can be charged and military devices powered at the same time
- High energy density ensures considerable weight reduction as well as space savings
- Operation is not weather-dependent
- Militarily hardened, tested and used by international defence organizations
- Operates with pure methanol in practical, safe cartridge sizes
- Approved for air transport in accordance with UN3473

Power generation / input	Distribution	Supply / charge
 <p>Power generation via SFC fuel cells, solar cells, vehicle power as well as mains current (110 V / 230 V).</p>	 <p>At the heart of the Network, the SFC Power Manager 3G ensures optimum power distribution.</p>	 <p>A large number of electrical devices can be powered and batteries can be automatically charged.</p>
Accessories*	Technical data: Power Manager 3G	Accessories*
Input JENNY 600S and JENNY 1200 (6150-12-381-8016) 	Weight: 520 g	Charging tray for AA/AAA batteries (6130-12-381-8053)
Input for vehicle lead battery via 12 V car socket (6150-12-381-8016) 	Dimensions: 162 x 95 x 36 mm	To operate PRC 148/152 MBITR (6150-12-381-7994)
Input from lead battery via terminals (6150-12-381-8073) 	Voltage range: 8 - 33 V DC	To operate PRC 117 with hybrid battery (6150-301-4117 & 6150-12-382-7999)
Solar input (6150-12-381-8013) 	Power range: max. 500 W	To operate Toughbook (6150-12-381-7993)
Input via power supply (6130-12-381-8009) 	Operating temperature: -32 to +55 °C	12 V car socket (6150-12-389-8002)
BB-2590 input (6150-12-381-8004) 	Supply number: 6116-12-389-4614	To charge BB-2590 (6150-12-381-8004)
		USB Power Set (6150-12-381-8677)

* additional cables on request

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