



JENNY 1200

Portable, low-weight power supply



Tremendous weight reduction



No detectable signature



Increasing sustainability



Solutions, features, and references

Modern task forces require a portable, reliable energy supply. Missions can take from several days to several weeks.

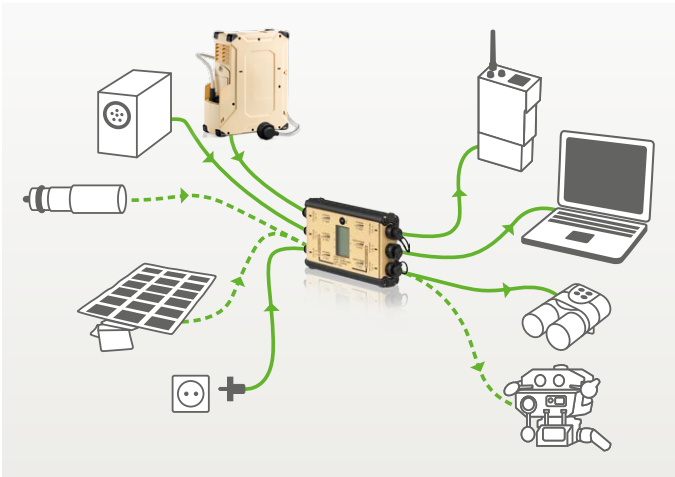
In order to supply power reliably to soldiers' technical equipment, a huge amount of batteries had to be carried along. JENNY 1200 can charge batteries or directly supply power to electrical consumers in the field silently and fully automatically. Together with the SFC Power Manager 3G, several consumers can be supplied with power very efficiently at the same time.

The advantages of the systems are a significant reduction in the number of batteries soldiers need to carry (with more than 75 % weight reduction for a mission with a duration of 96 hours), a barely detectable noise and heat

signature, and almost maintenance-free operation. Total cost of ownership and expenditures for logistics are partly significantly reduced.

The portable JENNY 1200 fuel cell is an addition to the JENNY series that is already field-proven and has been used by the German Armed Forces (Bundeswehr) for years. With a nominal power output of 50 Watt, the multi-award-winning DMFC (Direct Methanol Fuel Cell) technology of SFC Energy for defense and security applications ideally extends the successful product portfolio of the already with NATO stock number introduced JENNY 600S (25 Watt) ideally. JENNY 1200 is in use with international defense organizations.

Application



JENNY 1200 supplies electrical devices in a network

At a glance

- JENNY 1200 supplies power reliably and fully automatically for multi-day missions
- In combination with the SFC Power Manager 3G, charging different battery types and supplying military consumers is also possible simultaneously
- JENNY 1200 can be integrated seamlessly into the existing portfolio of SFC defense products and into all SFC energy networks
- High energy density ensures significant weight reduction, and space savings
- Weather-independent operation
- Toughened for military use, tested and used at international defense organizations
- Operation with pure methanol, in practical, safe fuel cartridge sizes, approved for air transport in accordance with UN3473

Technical data	
Charging capacity per day	1200 Wh
Nominal power	50 W ¹
Output voltage	10 – 30 V _{DC} ²
Weight	3.3 kg / 7.28 lbs
Dimensions L x W x H	214.5 x 96 x 264 mm / 8.43 x 3.78 x 10.39 in
Operating temperature	- 20 °C ... + 49 °C ¹ / -4 °F to +120 °F
Deployment elevation	Up to 4,000 m ¹ / 13,000 ft
Noise emission	20 m not detectable

¹ The energy output can be temporarily lower if the temperature is above +40 °C / +104 °F or an elevation of 2,500 meters / 8,200 ft is exceeded.

² Voltage is self adjusting via SMBus communication or can be manually adjusted.



Fuel cartridges	M2.5 Regular	M5 Regular
Nato stock number	6810-12-381-8735	6810-12-382-0392
Volume	2.5 l / 0.66 US gallons	5 l / 1.32 US gallons
Content	100 % methanol	100 % methanol
Weight	2.2 kg / 4.8 lbs	4.3 kg / 9.5 lbs
Electrical nominal capacity	at least 2,500 Wh	at least 5,000 Wh
Dimensions L x W x H	153 x 115 x 231 mm / 6 x 4.5 x 9.1 in	190 x 145 x 283 mm / 7.5 x 5.7 x 11.1 in
Running time	Up to 50 hrs	Up to 100 hrs

Weight reduction

JENNY 1200 set: 7.7 kg
Energy capacity: 5 kWh

22 units of BB2590 = 30.8 kg
Energy capacity: 5 kWh

Subject to changes and errors. Version: 1605 / v1 / 650 901 120

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