



vitec
POWER GmbH

SFC JENNY 1200

Portable, low-weight
power supply

Solutions, features
and references



Significant weight reduction



No detectable signature



Increasing sustainability

Modern task forces require a portable, reliable energy supply. Missions can take from several days to weeks. In order to supply power reliably to soldiers' technical equipment, a huge amount of batteries has to be carried along. The SFC JENNY 1200 can charge batteries or directly supply power to electrical consumers in the field silently and fully automatic. Together with the SFC Power Manager 3G, several appliances can be supplied with power very efficiently at the same time.

The advantages of the SFC JENNY 1200 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. The portable SFC JENNY 1200 fuel cell is an addition to the SFC 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 SFC JENNY 600S (25 Watt) ideally.

The SFC JENNY 1200 is in use with international defense organizations.

Overview

- 🔌 The SFC JENNY 1200 supplies power reliably and fully automatic for multi-day missions
- 🔌 In combination with the SFC Power Manager 3G, charging different battery types and supplying military consumers is also possible simultaneously
- 🔌 The SFC 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

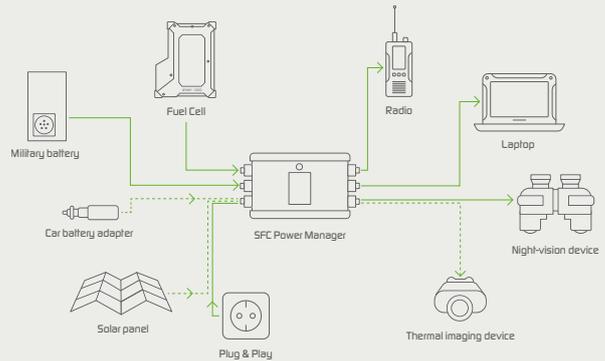
Technical data

| | |
|---------------------------|--|
| Charging capacity per day | 1200 Wh |
| Nominal power | 50 W ¹ |
| Output voltage | 10 – 30 VDC ² |
| Weight | 3,3 kg / 7.3 lbs |
| Dimensions L x W x H | 215 x 96 x 264 mm 8.4 x 3.8 x 10.4 in |
| Operating temperature | -20 °C ... +49 °C -4 °F to +120 °F |
| Deployment elevation | up to 4.000 m / 13,000 ft |
| Noise emission | from 20 m distance 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.

Application



Weight reduction



SFC JENNY 1200 set: 7,7 kg
Energy capacity: 5 kWh

22 units of BB2590 =
30,8 kg Energy capacity: 5 kWh

| Fuel cartridges | M2.5 Regular | M5 Regular |
|-----------------------------|--|---|
| Nato stock number | 6810-12-381-8735 | 6810-12-382-0392 |
| Volume | 2,5 l / 0.7 gal | 5 l / 1.3 gal |
| Weight | 2,2 kg / 4.8 lbs | 4,3 kg / 9.5 lbs |
| Electrical nominal capacity | at least 2.5 kWh | at least 5.5 kWh |
| 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 110 hrs |