JENNY 600S

SFC ENERGY

Small, portable power source

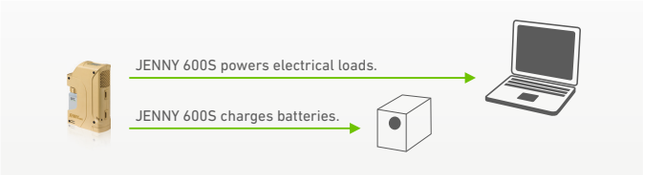
- 80% weight reduction
- No detectable signature
- Increased sustainability

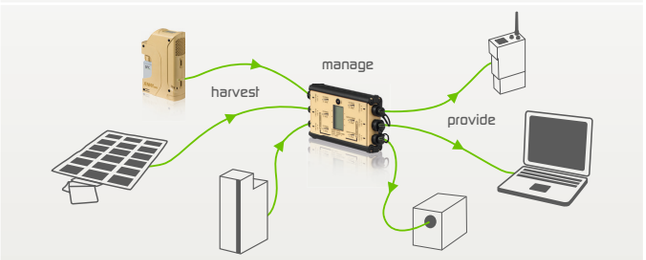
Solutions, features and references

Modern task forces require a portable, reliable energy supply. Missions can take several days or weeks. In order to supply power reliably to soldiers' technical equipment during the entire deployment duration, soldiers up to now had to use numerous batteries and carry spares, resulting in a substantial weight burden.
Using the JENNY 600S fuel cell significantly reduces the weight burden by reducing the number of spare batteries. For example, up to 80 % of battery weight burden can be eliminated based on the high energy density of the methanol fuel used and for a mission with a duration of 72 hours.

JENNY 600S supplies power to electrical devices and/or charges batteries in the field with minimal user attention. It is simple to use and does not generate any kind of detectable signature.
Therefore, the soldier can equip himself/herself with the minimum amount of batteries and instead carry additional food, water and ammunition, In combination with the SFC Power Manager 3G, a power distribution hub, several devices can be supplied with power very efficiently at the same time.
JENNY 600S is already being used by NATO forces.

Application





JENNY 600S powers electrical loads in a network

Overview

- JENNY 600S supplies electrical devices directly
- Quiet operation without detectable signatures
- Space saving with significant weight reduction
- Easy to operate without extensive training
- Operation is not weather-dependent
- JENNY 600S charges different battery types fully automatically
- In combination with the SFC Power Manager 3G, charging several batteries simultaneous is possible
- JENNY 600S is ruggedised for military use: specified, tested and deployed in a field environment
- JENNY 600S as well as the fuel cartridges have a NATO supply number
- The fuel cartridges are approved for air transport in accordance with UN3473

Technical data

Charging performance per day	600 Wh
Nominal power	25 W
Output voltage	10 – 30 V DC[1]
Weight	1.7 kg
Dimensions L x W x H	184 x 74 x 252 mm
Operating temperature[2]	-32 °C to +55 °C
Deployment elevation	up to 4,000 m
Noise emission	< 37 dB(A) at 1 m
Military ruggedisation & electromagnetic compatibility	MIL-STD and VG standard

[1] Voltage is self-regulating when used with SMBus batteries and the SFC Power Manager 3G
[2] In the temperature range of +50 °C to +55 °C, operation is possible only for a limited time. For hot climates, the M.35 Desert and M2.5 Desert fuel cartridges are available.

Fuel cartridges

Fuel cartridges	M0.35 Regular	M2.5 Regular[3]
Volume	350 ml	2500 ml
Contents	100 % methanol	100 % methanol
Weight	371 g	2200 g
Electrical nominal capacity	up to 400 Wh	up to 2800 Wh
Dimensions L x W x H	165 x 60 x 60 mm	231 x 153x 115mm
Running time	12 - 16 hrs	up to 100 hrs

The fuel cartridges can be refilled using the SFC methanol refilling station.

[3] Can only be used in combination with an M2.5 adapter.

Weight reduction

Energy contents of the fuel cartridge compared to BB2590 batteries.

2 x M0.35 = 0.7 kg

5 x BB2590 = 11 kg

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