



SFC JENNY 600S

Small,
portable power source


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 mission duration, soldiers up to now had to use numerous batteries and carry spares, resulting in a substantial weight burden.

Using the SFC 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.











The SFC 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.

SFC JENNY 600S is already being used by NATO forces.



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

Overview

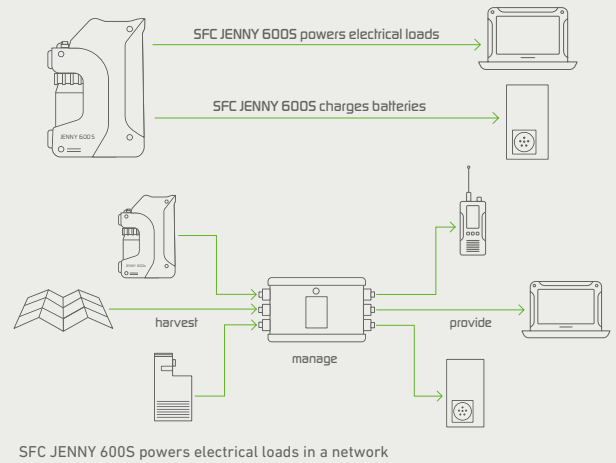
-  The SFC JENNY 600S supplies electrical devices directly
-  Quiet operation without detectable signatures
-  Space saving with significant weight reduction
-  Easy to operate without extensive training
-  Operation is not weather-dependent
-  The SFC JENNY 600S charges different battery types fully automatically
-  In combination with the SFC Power Manager 3G, charging several batteries simultaneous is possible
-  The SFC JENNY 600S is ruggedised for military use: specified, tested and deployed in a field environment
-  The SFC 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 data¹

Charging performance per day	600 Wh
Nominal power	25 W
Output voltage	10 – 30 V DC ²
Weight	1,7 kg / 3,75 lbs
Dimensions L x W x H	184 x 74 x 252 mm 7.2 x 2.9 x 9.9 in
Operating temperature ³ on Regular Fuel	-32 °C to +35°C (-26 °F to 94 °F)
on Desert Fuel	+10 °C to +55 °C (+50 °F to +131 °F)
Deployment elevation	up to 4.000 m / 13.123 ft
Noise emission	< 37 dB(A) at 1 m
Military ruggedness & electromagnetic compatibility	MIL-STD and VG standard

¹ All technical data under test conditions 20 °C / 68 °F
² Voltage is self-regulating when used with SMBus batteries and the SFC Power Manager 3G or can be manually adjusted
³ For temperature range below 0 °C (+32 °F) the heating pouch must be used
 At temperatures from +50 °C to +55 °C (+122 °F to +131 °F) operation is possible for limited time only mit Fuel Cartridge Desert
 For hot climates, the M0.35 Desert and M2.5 Desert fuel cartridges are available.
⁴ Can only be used in combination with an M2.5 adapter

Application



Weight reduction

Energy contents of the fuel cartridge compared to BB2590 batteries.



2 x M0.35 = 0.7 kg



5 x BB2590 = 11 kg

Fuel cartridges	M0.35 Regular	M2.5 Regular ⁴
Volume	350 ml / 0.1 gal	2500 ml / 0.7 gal
Weight	371 g / 0,82 lbs	2200 g / 4,8 lbs
Electrical nominal capacity	up to 350 Wh	up to 2,5 kWh
Dimensions L x W x H	165 x 60 x 60 mm 6.5 x 2.4 x 2.4 in	231 x 153 x 115 mm 6 x 4.5 x 9.1 in
Running time	@ 25 W: 14 hours	@ 50 W: 50 hours

The fuel cartridges can be refilled using the SFC Cartridge Filling Unit (CFU)



eCastle

