

FOKKER
AEROSTRUCTURES

E-Lighter®

Lightweight diesel-fueled power source for the modern soldier

The nr. 1
reliable
solution for
man-carried
energy
supply



Fokker



Lifeline innovation

Fokker Aerostructures is a company built on entrepreneurial spirit, technology and innovation, leading to an average of 30 patent applications a year. Our innovative drive was instrumental in the development of Glare, the revolutionary, lightweight and ultra-strong construction material. The Airbus A380, today's largest commercial airliner, uses Glare for its fuselage, while our advanced composites provide even further savings in weight and fuel consumption. Because of their specialist position Fokker Aerostructures is closely involved in prestigious aircraft programs like the Lockheed Martin F-35 and the Airbus A350. Particularly in defense and aerospace, there is a constant need for increased efficiency and safety of operations. This makes innovation our company's lifeline: new and improved solutions breed commercial success and ensure continuity.

Fokker Aerostructures is a company of Fokker Technologies, which develops and produces advanced components and systems for the aerospace and defense industry and supplies integrated maintenance services and products to aircraft owners and operators

Fokker Aerostructures
P.O. Box 59
7900 AB Hoogeveen
The Netherlands
Tel.: +31 528 28 52 24

Man-carried power: vital operational necessity

Today's fighting soldier typically carries 6-10 power users (communication equipment, GPS, night vision devices, flashlights, cameras) that may require 6-7 different batteries. Recharging or replacing traditional batteries takes time and brings about complex logistic challenges, especially in missions on foreign territory. Important objective in all worldwide soldier modernization programs is the reliable reduction of number, size and weight of the energy suppliers that keep a soldier's electronic equipment in operation.

Diesel-fueled power generator

The E-lighter® provides an exceptional answer to these challenges. Fully fueled, this revolutionary lightweight power source, weighting only 1.8 kg, offers over 400 Wh/kg during 48 hours of operation. Refueling

is easy, as diesel is widely available in most operational surroundings. The E-lighter® significantly reduces the personal energy-related logistic challenge, while reducing the load that needs to be carried. Unique advantages that directly translate into increased operational effectiveness and efficiency of the dismounted soldier.

Main characteristics

- 50% weight reduction compared to batteries (1.8 kg fully charged, 1.23 kg on average)
- Output: 15W, 15VDC
- Fuel: diesel or JP-8
- Over 400 Wh/kg at 48 hours of operation
- Suitable for 12-72 hour missions
- Refuelable during operation

50% weight reduction compared to batteries



Over 400 Wh/kg
at 48 hr operation

