



CASE STUDY

Uninterrupted Operations – How TOUGHBOOK and SFC Energy Increase the Operational Autonomy of Modern Armed Forces

Panasonic TOUGHBOOK & SFC Energy – Reliable IT and Power Supply for Modern Armed Forces

Product(s) supplied: **TOUGHBOOK 33 mk4 Tablet**

Today's armed forces rely on state-of-the-art communications, sensor-based reconnaissance, and dependable IT systems – often for many hours or days at a time and under demanding conditions.

Together, Panasonic TOUGHBOOK and SFC Energy can offer a solution that address these challenges, combining rugged, military-certified devices with highly efficient, off-the-grid fuel cell technology.

Modular, rugged TOUGHBOOK devices form the central IT platform for mission-critical military applications. When used with SFC Energy's mobile direct methanol fuel cell systems, TOUGHBOOK devices can reliably function at all times – even in harsh and remote operational areas.

"The combination of Panasonic TOUGHBOOK and SFC Energy's power solutions creates a reliable and scalable end-to-end solution for national armed forces. This allows critical equipment to remain mobile and operational for longer, ensuring the continuous availability of essential systems even in demanding operational environments"

Flo Bernreiter

Director Sales Defense

SFC Energy AG

Reliable C4I Solution

As part of C4I systems, modern armed forces use the TOUGHBOOK 33 2-in-1 detachable notebook with SFC Energy's JENNY 600S portable fuel cell. This mission-critical system integrates all essential communication, control, and reconnaissance processes between frontline teams and the command post. Technological failures in this area can have significant repercussions for military operations.

Previously, additional specialised batteries had to be carried to provide the necessary longevity – increasing weight and practicality. The durable, all-weather JENNY 600S removes this problem by efficiently and quietly charging the C4I system and other batteries as required (such as BB2590 and CWB units).





Flexible in-vehicle power supply in the field

Weighing just 1.7kg, deployed teams can use the portable JENNY fuel to power devices, communications equipment, and sensors for many hours and days. The SFC Power Manager 3G enables simultaneous and fully automatic charging of multiple devices without the need for special batteries.

Certified vehicle docking and mounting solutions, vehicle power supplies, and optional military connectors and plugs enable seamless integration of TOUGHBOOK devices into military vehicles. This is where the SFC EMILY fuel cell offers a virtually silent, self-sufficient power supply that reliably keeps TOUGHBOOK devices and on-board electronics operational.

Compared to conventional generators, this is ideal for reconnaissance missions or covert operations. Furthermore, TOUGHBOOK devices can also be switched to 'Concealed Mode' with a single click.

"With SFC fuel cell technology, we can further extend the battery life of TOUGHBOOK devices to deliver long-duration operations – especially where a power supply is not available. This ensures that armed forces are ready to deploy at any time – a crucial advantage."

Sebastian Philipp

Panasonic TOUGHBOOK



TOUGHBOOK and SFC fuel cell technology provide armed forces teams with a reliable, comprehensive solution that extends mobility and ensures the continuous availability of critical systems. This powerful, scalable solution makes tactical operations safer, more efficient, and more sustainable.