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rescue technology distribution

Vogt-CTE GmbH - Rescue Technology Distribution

Datasheet - FlexiBatt



FlexiBatt is a groundbreaking battery system developed in Norway

It is designed for demanding operating conditions. With an impressive capacity of 2.3 kWh in a lightweight design, it is ideal for operating the Euroheater 4D **at the lowest setting for up to 3-4 days**. Manufactured in Norway from high-quality components, FlexiBatt is designed **to withstand extreme conditions** - including operating temperatures down to **-20 °C**. The system is **completely waterproof (IP66), shockproof**, and designed to **provide reliable power** anytime, anywhere.

FlexiBatt - universally applicable

FlexiBatt can **be used in a variety of ways and is highly flexible**. Its application is **not limited to the operation of Euroheater devices**. Thanks to its mobile and robust design, FlexiBatt is suitable for **numerous areas of application**, such as lighting, tools, mobile heating systems, camping and outdoor equipment, or emergency power supply. Developed and manufactured in Norway, FlexiBatt is a robust, high-capacity battery designed for use in extreme outdoor conditions. It was developed specifically to power the **Euroheater 4D** and other critical devices, combining advanced lithium-ion technology, proven durability, and excellent energy efficiency.

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With a **gross capacity of 2.4 kWh** and a **nominal capacity of 2.3 kWh**, FlexiBatt enables autonomous heating operation for up to **3-4 days at low settings**, making it ideal for mobile applications where access to conventional power is limited or unavailable. Whether for military operations in cold climates, field research in remote areas, or disaster relief efforts, this battery is a reliable **plug-and-play power source**.

The **IP66-rated waterproof housing**, shock resistance, and wide operating temperature range (**-20°C to +45°C**) ensure reliable performance in harsh environments. The device supports **multiple outputs** - including 12 V, 24 V, USB-A, and USB-C - and can be fully charged in just 2 **hours** using a 20 A charger with 230 V. Solar charging is also possible, increasing its versatility for off-grid use.

Key benefits

- Designed for harsh climatic conditions: fully functional at -20 °C
- Extended autonomy: Powers a Euroheater 4D for up to 4 days
- Fast charging: 0 to 100% in approx. 2 hours with 20 A fast charger
- Multiple outputs: USB-B, USB-C, 12-24 V, optional 230 V
- IP66 waterproof housing: Resistant to dust, water, and shocks
- Made in Norway: Manufactured from high-quality European components
- Compatible with solar panels: Charge on site without mains power

Data sheet: FlexiBatt

Feature	Specification
Product	FlexiBatt
Manufacturer/Location	Norway, manufactured for use in extreme conditions
Capacity (nominal)	Approx. 2.3 kWh
Gross capacity	Approx. 2.4 kWh
Weight	Approx. 12.1 kg
Voltage (48 V system)	48 V cells
Maximum power (48 V)	up to 4,000 W
Continuous power (48 V)	approx. 3,000 W
Power (12 V outputs)	approx. 240 W
USB outputs	2 × USB + 2 × USB-C, total power USB/USB-C: approx. 90 W (two outputs, 45 W each)
Charging voltage (SOC 100%)	approx. 56.4 V
Cut-off voltage (SOC 0%)	approx. 35.1 V
Charging current (CCCV)	Standard: approx. 5 A; Maximum: approx. 20 A
Storage temperature	-20 °C to +45 °C
Operating temp. / Cold use	Designed for arctic conditions from approx. -20 °C to +45 °C
Protection class / IP rating	FlexiBatt is waterproof with IP66 certification
Mechanical robustness	Drop test without cell or housing damage
Dimensions (WxLxH)	Approx. 278 mm × 455 mm × 89 mm
Specific power	Approx. 5.2 kg/kWh



FlexiBatt - Flexible variants for every application

FlexiBatt is available in various **practical designs**, so you can find the right mobile energy source for every need:

FlexiBatt 12 V with inverter - Portable power supply

- Ideal for devices and applications with 12 V DC
- Perfect for mobile heating systems, lighting, or camping equipment
- Based on 48 V EU cells, this lightweight battery (12.1 kg) delivers a full 2.3 kWh, allowing you to quickly charge various electronic devices or supply them with power over a long period of time.
- FlexiBatt comes standard with 12 V outputs with 1 Nutrik output to power the EuroHeater, as well as 2 x USB and 2 x USB-C outputs with a total output of 240 W.
- **FlexiBatt can power your Euroheater air heater for up to 3 days.**

FlexiBatt 24 V with inverter - Portable power supply

- For consumers and systems that require higher DC voltage
- Ideal for professional applications with higher power requirements
- Based on 48 V EU cells, this lightweight battery (12.1 kg) delivers a full 2.3 kWh, allowing you to quickly charge various electronic devices or power them for long periods of time.
- FlexiBatt comes standard with 24 V outputs with 1 Nutrik output to power the EuroHeater, as well as 2 x USB and 2 x USB-C outputs with a total output of 240 W.
- **FlexiBatt can power your Euroheater air heater for up to 3 days.**

FlexiBatt Pro 230 V in Nanuk case

- Rugged, weatherproof Nanuk protective case for maximum mobility
- Direct 230 V output for mains-like power supply
- Ideal for outdoor use, construction sites, or emergency power applications
- Based on 48 V EU cells, this lightweight battery (12.1 kg) delivers a full 2.3 kWh, allowing you to quickly charge various electronic devices or power them over a long period of time.
- **FlexiBatt Pro can power your Euroheater air heater for up to 3 days.**

FlexiBatt Pro

FlexiBatt PRO is a modular 48 V battery system designed for professional use and off-grid applications. With an output of 2.5 kWh, it provides reliable power for a wide range of tools, appliances, and electronic equipment. The system is designed for demanding environments and features a rugged housing, 12 V and USB outputs, and an integrated charger with solar input for flexible power supply (). The battery modules can be quickly replaced, ensuring uninterrupted operation even when the charge level is low.

Technical data	FLEXIBATT PRO
Battery voltage	48 V (nominal)
Capacity	2.5 kWh
UPS power	300 W



Technical data	FLEXIBATT PRO
230 V output	2500 W
12 V output	240 W
USB output	130
Integrated charger	5 A (300 W)
Solar input	900 W
USB ports	1× USB-C, 1× USB-A (65 W)
Operating temperature - discharging	-20 °C to +55 °C
Operating temperature - Charging	+5 °C to +40 °C
Operating temperature - Storage	-20 °C to +55 °C
Dimensions (W × D × H)	557 × 429 × 216 mm
Protection class (IP)	54
Weight	26.5 kg

SolarPanel

Lightweight, foldable solar panel for charging the FlexiBatt PRO. It delivers up to 300 W of charging power and is ideal for off-grid use. Made from robust, weather-resistant materials for reliable operation in demanding conditions.

- **Dimensions (W × D × H):** 39 × 23 × 7.5 cm
- **Weight:** 7 kg

FlexiBatt Maxi

FlexiBatt MAXI is a high-performance UPS and energy storage system. It combines a main unit with modular 5 kWh UPS units that can be expanded to up to 50 kWh as needed. The system is lightweight, portable, and designed for rapid deployment. It provides reliable, uninterrupted power for field hospitals, command posts, and other energy-intensive applications, even in extreme or remote conditions.

Technical data	Description
Type	Modular UPS and energy storage system
Capacity	Scalable from 5 to 50 kWh
Output	230 V and 400 V, 12 V USB-C / USB-A
Operating	-20 °C to +60 °C
Charging options	Generator, direct power supply (AC) or solar panel
Availability	Market launch 2026

Key facts

- FlexiBatt was developed specifically for demanding field and outdoor applications in conditions of extreme cold (down to approximately -20 °C) and high stress.
- It uses high-quality 48 V cells, which allow for high power and energy density.
- Despite its capacity, it is lightweight (~12.1 kg), which facilitates mobility.



- Several types of outputs are available, including 12 V, USB, and USB-C, ideal for powering various devices simultaneously.
- Good charging capacity: With a fast charger (20 A, 230 V), the battery can be charged from empty to full in about 2 hours.
- High protection against environmental influences (IP66) and mechanical robustness (drop test) make FlexiBatt suitable for sale in adverse conditions.

Product advantages

1. **Mobility & lightweight**
Significantly lighter than conventional lead-gel or acid batteries with high capacity – useful for applications where weight counts.
2. **High performance & versatility**
Can deliver high power (up to 4,000 W at 48 V) while supplying smaller consumers via USB/12 V.
3. **Robust construction & environmental suitability**
IP66 protection rating; operates at –20 °C; built to withstand drops, weather, and stress – ideal for military, humanitarian, or arctic applications.
4. **Flexible charging options**
Standard and fast charging function, good charging times; also available with an optional foldable solar panel (under optimal conditions).
5. **Safety & discreetness**
No Bluetooth tracking function, so no unwanted location tracking; safe voltage ranges, protection against deep discharge; thanks to robust housing.

General safety instructions for mobile lithium-ion battery storage

Storage and transport

- **Store in a cool, dry, shaded** place: Optimal temperature is 5-20 °C, maximum –20 °C to +45 °C. No direct sunlight, frost, or high humidity.
- **Do not leave in the vehicle** if it can heat up significantly (summer heat, direct trunk).
- **Avoid mechanical stress:** no blows, crushing, drilling, or bending.
- **Transport** only in undamaged condition and with original or approved packaging; protect contacts against short circuits.
- For longer storage, **charge level approx. 40-60%**.

Charging and discharging

- **Only use original or approved chargers.**
- **Never leave charging unattended overnight.**
- Charge the device on a **non-flammable, flat surface** (e.g., ceramic tile, metal tray).
- **Do not force fast charging** if the device does not explicitly support it.
- Protect from moisture and dust, even during charging.
- Do not discharge below the minimum voltage specified by the manufacturer – deep discharge shortens the service life and can cause damage.

Operation

- **Observe the permissible ambient temperature** (see data sheet).
- **Do not overload:** only connect consumers that correspond to the maximum output power.
- Keep ventilation openings clear - overheating can cause fire.
- For mobile systems: Ensure **protection against impact and tipping**.

Detecting malfunctions

Switch off and secure immediately if:

- The housing swells, cracks, or becomes very hot,
 - Liquid leaks or an unusual odor develops,
 - heavy smoke or sparks occur.
- Discontinue use of the device and dispose of it properly.**

Fire and emergency measures

- In case of smoke or fire: **Disconnect the device if it is safe to do so.**
- Alert the fire department immediately.
- Suitable for lithium fires: **Class D fire extinguisher or plenty of water** (for cooling, not for extinguishing as with grease fires).
- Prevent with a suitable fire blanket certified for Li-ion batteries.
- Ventilate the room, avoid toxic fumes.
- Do not use a blanket or sand alone - heat accumulation can promote reignition.

Maintenance and disposal

- Do not open the housing or attempt to repair it yourself.
- Check regularly for dust, corrosion, and loose cables.
- Only dispose of defective or aged storage devices via **certified collection points or manufacturer take-back systems**.
- Never dispose of them in household waste.

FlexiBatt - Applications

- **Independent power supply for mobile heating devices (e.g., Euroheater 4D)**
In arctic, mountainous, or crisis regions, the battery supplies portable heating systems with power for several days, ensuring warmth and survivability for soldiers, researchers, or rescue workers - completely independent of the power grid.
- **Emergency power supply in disaster areas**
After earthquakes, floods, or power outages, the battery powers important medical devices, communication equipment, and lighting in field hospitals or emergency shelters - quietly, portably, and without fuel.
- **Tactical communications support**
Enables mission-critical communications such as encrypted radios, satellite connections, and surveillance equipment in remote areas without relying on vehicle power or fixed infrastructure - even in freezing temperatures.
- **Power supply for emergency services**
Paramedics and first responders can power defibrillators, monitors, infusion pumps, and lighting on site, ensuring uninterrupted medical care directly at the scene.
- **Support for drone and reconnaissance systems**

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Ideal for charging drones, remote control stations, and live feed devices during search and rescue, surveillance, or mapping missions—especially during extended field operations.

- **Outdoor workstations and mobile IT operations**

Perfect for journalists, scientists, engineers, or technicians who need to power laptops, GPS devices, cameras, or mobile servers in tents, vehicles, or extreme environments.

- **Power supply for special forces (e.g., SWAT, KSK, SOF)**

Provides reliable power for night vision devices, thermal imaging cameras, portable command interfaces, or laser rangefinders during mobile or covert operations.

- **Temporary field infrastructure power (camps, containers, tents)**

Keeps lighting, heaters, chargers, and sensors running in tactical bases, refugee camps, or field laboratories—without the noise, weight, or emissions of fuel generators.

- **Backup for vehicles**

Supplies power to on-board devices (radios, sensors, IT systems) while vehicles are stationary or switched off - conserves the vehicle's main battery and extends operational readiness.

- **Solar-powered hybrid configurations**

In combination with solar panels, the battery enables sustainable, long-term off-grid operation for environmental research, outposts, or expedition bases—rechargeable, silent, and environmentally friendly.

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Vogt-CTE delivers rescue innovations

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