



MOBILE ENERGY STORAGE SYSTEM (BESS) / MOBILE UPS

# Statron emost – Butler S 25 kWh, 50 kVA

## Technology at a glance

- ▶ Energy storage using Li-ion cell technology
- ▶ Battery capacity: 25 kWh, Nominal power: 50 kVA
- ▶ Time for full charge: 4.5 hours
- ▶ Weight of the battery system: 650 kg
- ▶ Transport without special permits and registration
- ▶ Monitoring and surveillance via web-based service platform

## Advantages and benefits in operation

- ▶ High reliability
- ▶ No CO<sub>2</sub> emissions
- ▶ Allows use of sensitive loads with constant voltage
- ▶ Permit-free and simple installation
- ▶ Minimal noise emission
- ▶ Better price/performance ratio compared to diesel generators

# Statron emost Butler S – The world's first mobile energy storage system (BESS) for the heavy-duty sector

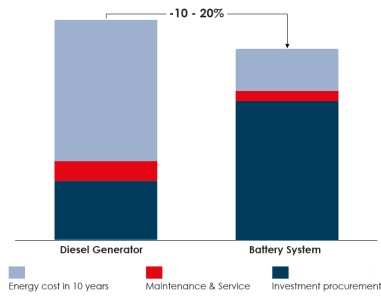
The battery storage system is based on a proven Li-Ion UPS system (uninterruptible power supply) and a battery with mature Li-ion cell technology. It is developed for use in industry and commerce and can be used flexibly indoors and outdoors. The system can be operated in stand-alone mode or in combination with the power grid. The Statron emost BUTLER is your solution for mobile power applications.



## emost technology at a glance

The emost battery storage system - or mobile UPS - of Statron is based on a reliable UPS and works together with a mature Li-Ion battery. The main features are:

- Energy storage using Li-ion cell technology
- Battery capacity: 25 kWh
- Nominal power: 50 kVA (overload capability according to data sheet)
- Time for full charge: 4.5 hours (with 16 A charging current)
- Weight of the battery system: 650 kg
- Transport without special permits and registration
- Monitoring and surveillance via web-based service platform



## Economy

The life cycle costs of an emost Butler are lower than those of conventional diesel generators. Although the purchase price is higher than a diesel generator, there is no need for expensive maintenance work, such as oil changes or overhauls or other revisions.

The economic advantages are:

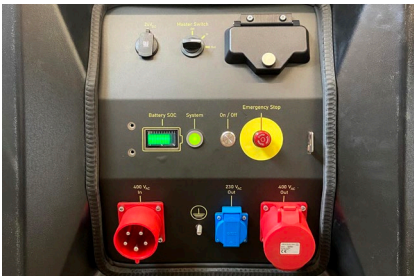
- Better price/performance ratio than with diesel generators & complex / time limited grid connections
- Lower life cycle costs due to low maintenance costs
- Intuitive Operation
- Long-term investment security due to the intrinsic environmental compatibility



## Ecology

Due to noise and dirty emissions, diesel generators are subject to growing regulatory constraints and increased public criticism. One of the world's stated political goals is to reduce CO<sub>2</sub> emissions. Here, the Butler S has clear advantages. These are:

- Meets all regulatory requirements, today and in a CO<sub>2</sub>-free world
- Investment security due to no CO<sub>2</sub> emissions
- Compliance with EU Stage V standard
- Compliance with and tested of CO<sub>2</sub> reduction measures



## High Energy Quality

The emost Butler provides high quality electricity that allows consumers to function as if they are using the mains. Our technology delivers a consistently high-power quality up to the nominal output – this means that oversized supply units are a thing of the past. For you, the electricity comes from the socket – the emost Butler takes care of the rest.

High power quality:

- Allows the use of sensitive loads that are difficult or impossible to supply with diesel generators
- Avoids the current practice of having to provide oversized generators
- Allows the use of generators with power ratings adapted to demand



## Easy to Use

The emost Butler is built to last. Moisture, high and low temperatures, dust as well as dynamic loads are no bother and it only requires low maintenance. The advantages of the Butler S are:

- Easy transport, permit-free installation and simple operation
- Problem-free and flexible transport on the emost trailer or an alternative loading device

- High level of acceptance among the public your employees due to the absence of dust and emissions
- Robust against water, temperature, dust and vibrations
- No diesel leakage (no need for collecting pan)
- Plug & Work design, compatible with the industry standard CEE sockets [230VAC/400VAC]

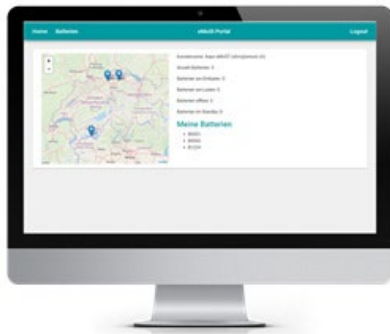


## Silent and high work safety

One of the greatest advantages of the Butler S allows high working safety and usability even in closed rooms, as there are no harmful substances or acoustic emissions. It can be used even in closed rooms or during tunnel construction. It is CE certified.

The advantages are:

- Comprehensive work safety
- No emission of pollutants
- No noise emissions
- Fully applicable in confined spaces



## Transparency

The service platform provides real-time information on the current location, charging status of the individual units as well as technical parameters, such as the temperature. Users receive notifications about the status of the system and can react adequately at any time. The advantages are:

- Professional monitoring & control by an integrated service platform (IoT platform)
- Continuous control with transparent monitoring of fleet & performance
- Support in loading logistics and system optimization
- Efficient data processing for subsequent analysis and administration

## Technical Specification | emost Butler S 50/25

Battery System		Electrical Parameter	
<b>Dimensions (L x W x H)</b>	1480 x 820 x 1105 mm	<b>Frequency</b>	50 Hz
<b>Weight</b>	650 kg (excl. trailer)	<b>Nominal Power</b>	50 kVA (45 kW)
<b>Protection degree</b>	IP54	<b>Overload</b>	
<b>Temperature</b>	-20 °C to +40 °C operating temperature	<b>100 - 110%</b>	continuously (30 min. at 23°C)
		<b>110 - 125%</b>	max. 10 min
		<b>125 - 150%</b>	max. 1 min
		<b>&gt;150%</b>	max 0.2 sec
<b>Cooling</b>	air	<b>Charging time (full load)</b>	<4.5 h (at max. 16 A charging current); 0°C
<b>External noise</b>	<52 dB (distance of 1 m)	<b>Battery capacity</b>	min. 25 kWh at bei 23°C
<b>Charging</b>	CEE Stecker, 400 V, 32 A CEE Stecker, 400 V, 16 A		
<b>External plug</b>	CEE plug, 400 V, 32 A CEE plug, 400 V, 16 A type 25, 16 A		
Optional Features		Operation	
<b>emost trailer</b>	Trailer with special tank for the battery system +150 kg	<b>Monitoring</b>	Parameter and data of position are stored and can be made accessible via Web-application.
<b>Home-Charging (220 V)</b>	single phase charging (Typ 13 plug) + 30 kg	<b>Transport</b>	The transport of the battery system does not require no special permits and approvals (UN 3481 Lithium ion Batteries in Equipment). The battery weight is <333kg (battery mass) so the transport is also subject to the exemption according to 1.1.3.6 of the CoR. A trailer is optionally available.
<b>External plug</b>	Option 1: Additional plug type 25, 16 A plug Option 2: Additional plug type CEE 400V 63 A plug*	<b>Guarantee</b>	Basis: 3 years or 5'000 working hours, what comes first
<b>Customized housing color</b>	Coating paint in your corporate design		

\*The 63 A variant is suitable for frequency-controlled applications as well as other applications (e.g. cranes). For high starting currents of old loads with 63 A plug, we recommend the BUTLER M.