

Technical datasheet

Battery Storage BUTLER S 50/25



- Developed in Switzerland to cater to the unique demands of industry and commerce. The BUTLER, based on Li-ion cell technology and Swiss engineering, has been extensively tested in practice.
- Customers and service employees are supported by a "digital twin" which enables status-based notifications
- Whether indoors, outdoors, for stand-alone operation or as a booster in combination with the power grid - the BUTLER is the optimal solution for your mobile power applications.

Benefits at a glance	
	Economic: Better price/performance ratio of life cycle costs compared with diesel generators or complex and provisional grid connections. Investment security due to ecological advantage.
	Ecological: Meets all the regulator's standards - not only for now, but also in a future CO2-free world. Without exhaust gases also suitable for indoor applications.
	No noise emission: Increases comfort, work safety and enables night construction sites and events.
	High power quality: Allows the use of sensitive equipment (noise-free sinusoidal waveform, always within the specified voltage and frequency tolerances) without oversizing the generator and with significantly higher efficiency than diesel generators.
	Easy to use: Permit-free and simple installation for rapid site mobilisation, trouble-free transport and easy operation with CE conformity.

Battery system – basic configuration	
Weight	660 kg (excl. trailer)
Dimensions (L x W x H)	148 x 82 x 110 cm
Protection Class	IP54
Operating range	-20 °C to +40 °C ambient temperature
Cooling principle	air-cooled
Lithium-ion batteries	Lithium Mangan Oxid (LMO)
Noise level	<52 dB (at a distance of 1 m)
Charging	1 x CEE32A plug 400 V 1 x CEE16A plug 400 V
Discharging/Feed-out	1 x CEE32A socket 400 V 1 x CEE16A socket 400 V 1 x socket type 25 (CH) or 1 x CEE 7/3 (EU) socket type F

Electrical parameters	
Frequency	50 Hz
Nominal power	50 kVA (45 kW)
Overload capability	<p style="text-align: center;">Continuous (30 min at 23°C)</p> <p style="text-align: center;">max. 10 min</p> <p style="text-align: center;">max. 1 min</p> <p style="text-align: center;">max. 0.2 sec</p>
100 – 110%	
110 – 125%	
125 – 150%	
>150%	
Charging time (full charge)	<4.5 h (5% to 95% @ max. 16 A charging power; above 0°C)
Battery capacity	25 kWh net useable at 23°C ¹
Protection	The system does not require external grounding.

Optional features	
Additional charging plugs	Home-Charging (230 V) Single-phase charging (type 13 plug)
Additional discharging socket /feed-out	Type 25 (CH) or CEE 7/3 (EU) socket type F, or CEE16A 400 V, 63 A ²
Alternative design	Corporate design on request available
Generator start	Steering of a hybrid system with a generator start/stop automation

Transportation
The transport of the battery system is in accordance with UN 3536, categorized as "LITHIUM BATTERIES INSTALLED IN GOODS CARRIER UNITS." Given that the battery weight is <333kg (battery mass), it qualifies under the 1000 points rule as per 1.1.3.6 of the ADR. This regulation permits the transportation of dangerous goods in small quantities without the requirement special signs for warning signs.

¹ Capacity can be expanded by connecting Butler units in series.

² We will be happy to validate your requirements before your order. The 63 A variant is suitable for frequency-controlled applications as well as selective other applications (e.g. cranes).

Telemetry	
Mobile communication	LTE Cat 1 (EU) 2G/3G Fallback
Navigation	72 channels GPS, Galileo, GLONASS, BeiDou

Butler trailer (optional)	
Trailer	With a special tray to accommodate the battery system
Supplementary kits	Holding device for 2kg ABC fire extinguisher
Loading & unloading	Fast and safe handling thanks to special fastening technology greatly facilitates transport - no tension straps required
Permissible speed	Max 100 km/h (applicable to Switzerland)
Coupling options	Ball head or jaw hitch
Dead weight	+260 kg

IT Services – emost Insights (IoT platform)	
Basic Package ³ Annual subscription per unit	
Monitoring	Realtime location monitoring Charging battery status Access to selected operational information
“Unit Health”	Notification of critical events (error messages and warning alerts) such as imminent deep discharge Alert notifications received by email
Notification system	Subscription to notifications about status of the units (e.g. SOC-push)
Device and User Access Management	Streamlined control and oversight of devices, ensuring secure and efficient management of user access privileges who have access to emost Connect.
Operator access	Effortless Access Management: Enables time-limited activation of information and notifications tailored for operational employees, ensuring streamlined communication and efficient workflow facilitation.

All technical data and descriptions correspond to the state of knowledge at the time of printing and are for information purposes only. emost BUTLER systems and their accessories are subject to constant further development. Technical specifications and illustrations are non-binding. Liability for misprints and mistakes is excluded.

³ The basic package encompasses a two-year subscription to our inclusive IoT platform.