

Commercial battery storage 100MWh+ DSW BESS 836

Maximum security, optimized costs & flexible scalability –
the ideal storage solution for large projects



Application Areas

- ✓ Industry
- ✓ Commercial
- ✓ Agriculture
- ✓ Charging infrastructure
- ✓ Critical infrastructure
- ✓ Storage park 100MWh+
- ✓ PV park expansion

All advantages at a glance

- **Powerful loading and unloading** – 418 kW peak power
- **Durable & safe** – >7000 full system cycles
- **Scalable & flexible** – Expandable from 836kWh up to storage parks >100MWh
- **Integrated safety** – monitoring of cell voltage, smoke detection & temperature monitoring, Fire & emergency protection – Aerosol fire extinguishing system, emergency stop
- **Flexible integration** – with external German EMS**
- **Operationally optimized, decentralized architecture** – high availability, easy service, low operating costs.



GENERAL DATA

Product type	L800Pro
Battery type	Lithium iron phosphate (LFP) – liquid-cooled
Rated capacity	836 kWh
Usable capacity	836 kWh (100% of the rated capacity)*
Max. charge/discharge power	418 kW
Power connection	690 VAC, 50/ 60Hz, 3L + PE
Auxiliary connection	400 VAC, 50/ 60Hz, for cooling and communication
Power factor at rated power / Displacement factor cos ϕ adjustable	1 / 0,0 capacitive to 0,0 inductive
Maximum Efficiency of Battery Inverters	98,8%
Dimensions (WxDxH)	2350 x 1600 x 2450 mm
Weight	~7600 kg
Product warranty	5 Years
Performance warranty	≥68% after 7000 full system cycles or 10 years

ENVIRONMENTAL CONDITIONS

Operating temperature	-30 °C to +55 °C (>45 °C or - <15 °C in derating-mode)
Relative humidity	5 % bis 100 % ≤95 % (daily average); ≤90% (monthly average)
Altitude	Up to 3000 m over NN (>2000 m in derating-mode)
Protection level	IP67 (battery module)/ IP55 (housing)
Direct sunlight	permissible
Installation in dusty environments	permissible

SECURITY & PROTECTION

Security features	Cell voltage monitoring, multi-stage temperature monitoring, smoke/gas detection, thermal runaway stopper
Fire suppression	Aerosol fire suppression system, prepared for installation
Fire containment	Safety enclosure for limiting the spread of fire TRS Technology for Thermal Runaway Propagation
Material	Q235B-Steel (Corrosion protection: C3 after ISO 12944-2, Upgrade to C5)

SCALABILITY & COMMUNICATION

Communication	Modbus TCP/IP, Ethernet (RJ45)
Network integration	Can be integrated into all standard networks
Remote monitoring	Via external Master EMS**

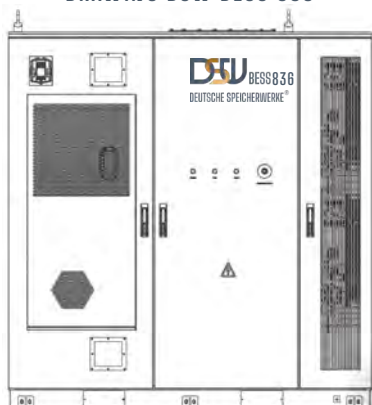
CERTIFICATIONS & STANDARDS

Network compliance	VDE4110, VDE4120, EN50549
Safety & Quality standards	IEC62619, IEC63056, IEC61000-6-2/4, IEC62477-1, UL9540, UL1973
Transport & Environment	UN38.3, UN3480, REACH, RoHS, CE
Batt-Reg.-Nr.	25716632
WEE-Reg.-Nr.	39192070

*The usable storage capacity is 100% of the age-dependent nominal capacity. Please note the warranty conditions.

**The system can only be operated with an external master EMS (SMART Q) or with a customer-supplied EMS. Modbus protocol available

DRAWING DSW BESS 836



INTERIOR VIEW / SYSTEM LAYOUT

