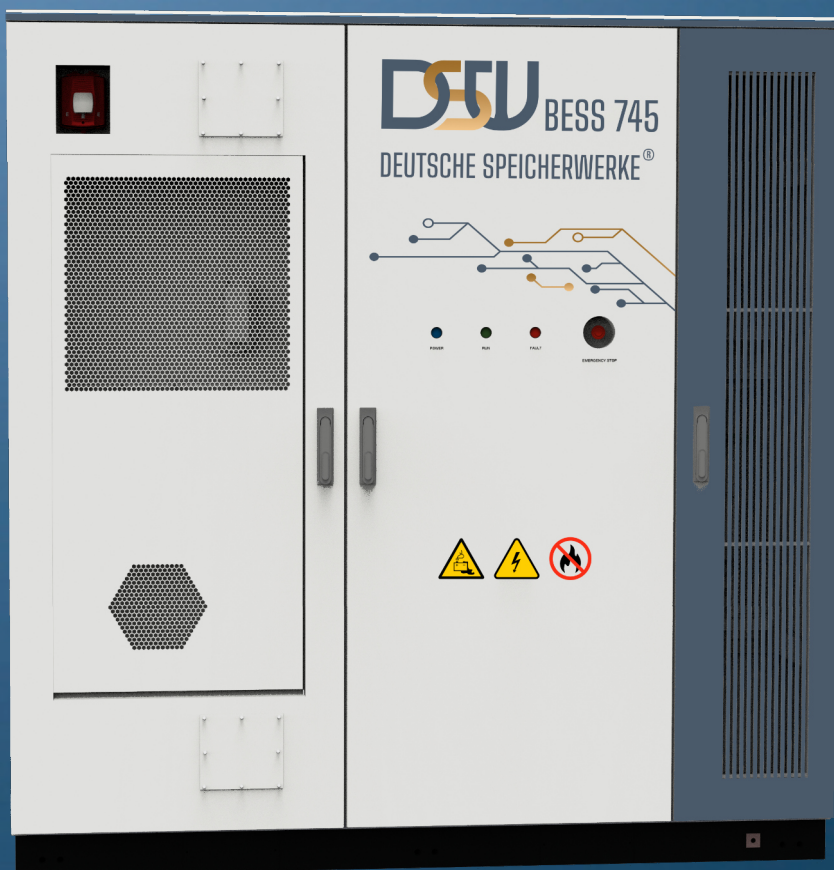


Commercial battery storage 100MWh+ DSW BESS 745

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** – 365 kW peak power
- **Durable & safe** – >7000 full system cycles
- **Scalable & flexible** – Expandable from 745kWh 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**



GENERAL DATA

Product type	DSW BESS 745 (Goldblock L700Pro)
Battery type	Lithium iron phosphate (LFP) – liquid-cooled
Rated capacity	745 kWh
Usable capacity	745 kWh (100% of the rated capacity)*
Max. loading & unloading capacity	365 kW
Power connection	690 VAC, 50/ 60Hz, 3L + PE
Power factor at rated power / Displacement factor $\cos \varphi$ adjustable	1 / 0.0 capacitive to 0.0 inductive
Maximaler Wirkungsgrad Batteriewechselrichter	98,8%
Dimensions (WxDxH)	2350 x 1600 x 2430 mm
Weight	~7600 kg
Product warranty	5 years
Performance warranty	≥70% 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 % to 100 % ≤95 % (daily average); ≤90% (monthly average)
Altitude	Maximum 3000 m (>2000 m derating)
Protection level	IP67 (battery module)/ IP55 (housing)
Direct sunlight	permissible
Installation in dusty environments	permissible

SECURITY & PROTECTION

Security features	Monitoring of cell voltage, smoke detection & temperature monitoring
Fire suppression	Aerosol
Emergency stop switch	Available
Material	Q235B-Steel (corrosion protection: C3 according to ISO 12944-2, Upgrade to C5)
Independent UPS	Integrated (communication & security components only)

SCALABILITY & COMMUNICATION

Communication	Modbus TCP/IP, Ethernet (RJ45)
Network integration	Grid-forming BESS function for microgrids
Remote monitoring	Via external Master EMS**

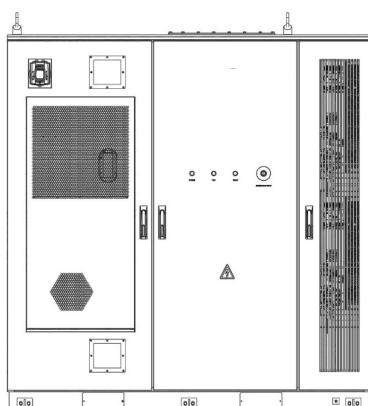
CERTIFICATIONS & STANDARDS

Network compliance	VDE4110, EN50549, VDE4120
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 745



INTERIOR VIEW/ SYSTEM LAYOUT

