



DEUTSCHE SPEICHERWERKE®

# Commercial energy storage system with battery inverter DSW BESS 261

High performance energy storage for industry, trade and agriculture –  
Your solution for a more economical and independent energy supply.



## Application Areas

- ✓ Commercial
- ✓ Industry
- ✓ Agriculture
- ✓ Residential buildings
- ✓ Supermarkets
- ✓ Critical infrastructure
- ✓ Charging infrastructure
- ✓ Biogas plants

## All advantages at a glance

- > **Powerful loading and unloading** – 125 kW peak power
- > **Durable & safe** – >6000 full system cycles
- > **Flexible integration** – with external German EMS\*\*
- > **Scalable** – Expandable to up to 8 systems
- > **Compact design** – protection class IP54, service-friendly
- > **Integrated safety** – monitoring of cell voltage, smoke detection & temperature monitoring  
Fire & emergency protection –  
Aerosol fire extinguishing system, emergency stop
- > **Digital monitoring of the installed safety devices**

Efficiency. Flexibility. Independence.



GENERAL DATA

Product type	CESS-M261-EU
Battery type	Lithium iron phosphate (LFP) – liquid-cooled
Rated capacity	261 kWh
Usable capacity	255 kWh (98% of the rated capacity)*
Max. charge/discharge power	125 kW
Power connection	400 VAC, 50 Hz, 3L + N
Power factor at rated power / Displacement factor cos $\varphi$ adjustable	1 / 0.0 capacitive to 0.0 inductive
Maximum efficiency battery inverter	>99%
Dimensions (WxDxH)	930 x 1400 x 2300 mm
Weight	~2500 kg
Product warranty	5 years
Performance warranty	≥70% after 6000 full system cycles or 10 years

ENVIRONMENTAL CONDITIONS

Operating temperature	-20 °C to +55 °C (>45 °C in derating mode)
Relative humidity	5 % to 100 % ≤95 % (daily average); ≤90% (monthly average)
Altitude	Maximum 3000 m (>2000 m derating)
Protection level	IP54
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: C4 according to ISO 12944-2)
Independent UPS	Integrated (max. 30 min, communication & security components only)

SCALABILITY & COMMUNICATION

Scalability	Up to 8 systems via external EMS**
Communication	Modbus TCP/IP, Ethernet (RJ45)
Remote monitoring	Via external Master EMS**

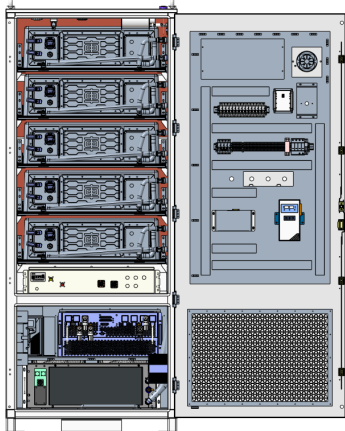
CERTIFICATIONS & STANDARDS

Network compliance	VDE4105, VDE4110, VDE4120, EN50549
Safety & Quality standards	IEC62619, IEC63056, IEC61000-6-2/4, IEC62477-1, IEC62620, UL9540A, UL1973, IEC62933-5-2
Transport & Environment	UN38.3, UN3480, REACH, RoHS, CE
Batt-Reg.-Nr.	25716632
WEE-Reg.-Nr.	39192070

\*The usable storage capacity is 98% 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.

INTERIOR VIEW/ SYSTEM STRUCTURE



EXPANSION OPTIONS FOR THE DSW BESS 261

