



Mercedes-Benz Energy Storage Home.

Mercedes-Benz



The airbag of the future – protecting your energy costs.

Full energy ahead.

Mercedes-Benz Energy Storage Home.

Energy storage is one of the burning topics for the future. With Mercedes-Benz Energy Storage Home, we offer private households and businesses a solution to save resources and safely manage their own energy – to make their energy supply more independent and more efficient, and to better cope with any spikes in energy demand.

Developed for demanding conditions in cars, Mercedes-Benz Energy Storage Home meets the highest safety and quality standards. The battery modules, each with an energy capacity of 2.5 kWh, are developed and sold by Mercedes-Benz Energy. Up to eight battery modules can be combined for private use, giving a total energy storage capacity of 20 kWh.

It's not just the environment that benefits.

Users also do.

Our energy storage systems are not just targeted towards people who are looking for freedom in the automotive world, but also towards those who want to be free to choose the nature of their energy supply and storage.

- Private home owners can move their own 'private energy revolution' forwards through a combination of regenerative energy sources and local energy storage.
- Retail chains, industry and agricultural businesses can all benefit from local energy storage, which is an ideal way of evening out what can be large fluctuations in consumption, thus reducing energy costs.
- Energy providers can use local energy storage to offer targeted services in the areas of 'energy efficiency', the 'smart home' and 'green electricity'.

At a glance.

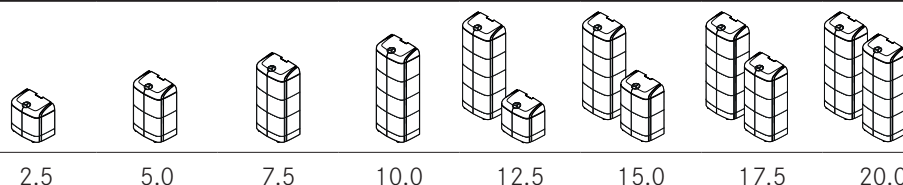
The benefits of Mercedes-Benz Energy Storage Home.

- Very reliable lithium-ion technology with a long service life
- Automotive platform – developed for demanding conditions in cars
- 'Made in Germany' to Mercedes-Benz quality
- Modular system design (2.5 kWh–20 kWh)
- Long life: approx. 80% capacity remaining after ten years
- Expected number of cycles: 8,000
- Saves resources
- Greater independence in energy supply



Home

Technical specifications



	2.5	5.0	7.5	10.0	12.5	15.0	17.5	20.0
General information								
Stand-mounted dimensions (W/H/D) in cm	47/42/29	47/67/29	47/92/29	47/117/29	144/117/29	144/117/29	144/117/29	144/117/29
Wall-mounted dimensions (W/H/D) in cm	47/43/29	47/68/29	47/93/29	47/118/29	144/118/29	144/118/29	144/118/29	144/118/29
Stand-mounted weight, incl. accessories (32 kg heaviest handling group)	ca. 37 kg	ca. 69 kg	ca. 101 kg	ca. 133 kg	ca. 170 kg	ca. 202 kg	ca. 234 kg	ca. 266 kg
Wall-mounted weight, incl. accessories (32 kg heaviest handling group)	ca. 35 kg	ca. 67 kg	ca. 99 kg	ca. 131 kg	ca. 166 kg	ca. 198 kg	ca. 230 kg	ca. 262 kg
Installation type	Stand- or wall-mounted							
Permissible network configuration	IT							
AC/DC-coupled	Possible (system-dependent)							
1- or 3-phase	Possible (system-dependent)							
Protection class	IP20							
Ambient temperature	+6°C to +44°C							
Battery data								
Number of energy storage modules	1	2	3	4	5	6	7	8
Usable energy content	2.3 kWh	4.6 kWh	6.9 kWh	9.2 kWh	11.5 kWh	13.8 kWh	15.6 kWh	18 kWh
Expected number of cycles	8,000 (80% DoD/0.5 C)							
Expected residual capacity after ten years	> 80%							
Operating voltage range	39,7V to 54 V							
Cell technology	Lithium-ion (nickel, manganese, cobalt)							
Continuous battery power	~1.25 kW	~2.5 kW	~3.75 kW	~4.6 kW	~4.6 kW	~4.6 kW	~4.6 kW	~4.6 kW
System efficiency	97% round cycle							
Warranty	10 years current value replacement warranty							
Compatible inverter								
SMA Sunny Island 3.0 M/4.4 M/6.0 H/8.0 H								
Standards								
2006/66/EC (Batteries Directive), 2011/65/EU (RoHS), EMC Directive 2014/30/EU, Low-Voltage Directive 2014/35/EU, Security Guide 2014 - Li-Ion domestic storage (from BSW, BVES, DGS, StoREgio and ZVEH), Product Liability Act (ProdHaftG), Product Safety Act (ProdSG), harmonised standards and valid transport and packaging regulations								



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