

Renewable energy

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new



MBEH-BA-150



MBEH-IV-60H

Lithium-ion battery storage system

The storage of energy is one of the key subjects of the future. Mercedes-Benz Energy Storage offers a solution to save resources and to reliably manage energy and provide a more independent and efficient source to better buffer peaks in energy demand.

Mercedes-Benz Energy Storage batteries are Lithium-ion, developed for challenging applications in vehicles, complying to strictest safety and quality requirements and the same type of batteries used in their electric cars.

The Energy Storage system is modular and offers a starting storage capacity of 2.5 kWh per module. Up to eight battery modules can be combined to form an energy storage space of up to 20 kWh of clean energy and can be either floor standing or wall mounted.

Advantages of Mercedes-Benz energy storage at a glance:

- Made in Germany in Mercedes-Benz quality
- Exceptionally safe, reliable Lithium-ion technology with a very long service life
- Individually customisable configuration (*modular system structure 2.5 - 20 kWh*)
- Long operational lifetime - expected no. of cycles: 8.000
- High efficiency - 97% round cycle
- 10 year replacement value guarantee

type	rated kWh	operating voltage	efficiency (round cycle)	description
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Battery module stackable on top of one another to increase capacity

- Compact dimensions: (H) 430 x (W) 470 x (D) 290 mm - weight: 32kg

MBEH-BA-150	2.5 kWh	48 VDC	97%	Lithium-ion battery module
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Above battery modules can be stacked to increase overall battery capacity.

The system is completed by adding the top cover and base for either floor standing or for wall mounting

Accessories for above battery module

MBEH-TP-150	top cover	for battery modules (<i>one required for 1-4 stacked modules</i>)		
MBEH-FO-150	base	for floor standing battery modules (<i>for 1-4 stacked modules</i>)		
MBEH-BO-150	base	for wall mounting battery modules (<i>for 1-4 stacked modules</i>)		

Mounting brackets

MBEH-S2-150	mounting	floor standing bracket kit	for 2 battery modules	
MBEH-S3-150	mounting	floor standing bracket kit	for 3 battery modules	
MBEH-S4-150	mounting	floor standing bracket kit	for 4 battery modules	
MBEH-W2-150	mounting	wall mounting bracket kit	for 2 battery modules	
MBEH-W3-150	mounting	wall mounting bracket kit	for 3 battery modules	
MBEH-W4-150	mounting	wall mounting bracket kit	for 4 battery modules	

Inverter/battery chargers for above batteries

The perfect product solution for stand-alone and grid-connected systems, a core element in flexible storage systems, storing generated solar power to manage energy consumption intelligently.

High protection class, wide temperature range and overload capacity, provide the reliability required for off-grid use.

Energy storage can be configured to ensure actual demand is met and forecast-based charging of the Mercedes-Benz energy storage system ensures optimum use of excess PV power.

type	AC power at 25°C	AC voltage	max. efficiency	description
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- Can be retrofitted for single and three-phase systems

MBEH-IV-60H	6.0 kW	230 VAC	95.8%	inverter/battery charger
MBEH-IV-80H	8.0 kW	230 VAC	95.8%	inverter/battery charger

Accessories for SMA inverters

MBEH-RC-SMA	sunny remote control for SMA inverter			
MBEH-HM-SMA	sunny home manager for SMA inverter			
MBEH-EM-SMA	sunny energy meter for SMA inverter			
MBEH-SW-SMA	sunny speed wire for SMA inverter			

new



RPI H5A

Delta RPI - Commercial series, transformerless PV inverters convert sunlight energy generated by solar panels into grid-compatible current. Delta's industrial cutting-edge technology presents industry leading efficiency as high as 98.3%.

- VDE-AR-N 4150, VDE 0126-1-1, BDEW, NB/T 32004:2013, GB/T19964: LVRT, IEC 62109-1/-2, EN 61000-6-2/3

type	max. input voltage	max. output power (VA)	max. output current (A)	peak efficiency	description
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Single phase grid tied inverters 230 VAC output

RPI-Home series PV inverters with IP65 protection class and fast connector features are suitable for indoor/outdoor and rooftop solar systems to feed power into low voltage networks. Dual MPP tracker provide greater flexibility, multiple strings facing different angels perform yields with highest efficiency.

- Transformerless design
- Wide voltage range
- LCD display
- Easy installation, wall mountable
- IP65 protection level: Aluminium die-cast enclosure

RPI302N63E0000	600 VDC	3 kVA	13.9A	97.50%	single phase solar inverter
RPI502N55E0000*	600 VDC	5 kVA	23.2A	97.50%	single phase solar inverter

* With dual MPP tracker

Three phase grid tied inverters 230/400 VAC output

RPI - Commercial series transformerless PV inverters convert sunlight energy generated by solar panels into grid-compatible current. Industrial cutting-edge technology presents industrial leading efficiency as high as 98.3%with the most compact size design and durable quality PV inverter to ensure PV system operation.

- Transformerless inverter
- Dual MPP tracker
- Wide working voltage range
- Ultra light weight design
- Built-in energy-logger & data-logger
- RS485 communication port
- Built-in DC switch
- IP65 protection: Aluminium die-cast enclosure

RPI 8 kVA - 20 kVA

RPI802FA0E1000	1000 VDC	8.4 kVA	12.8A	98.30%	three phase solar inverter
RPI103FA0E1000	1000 VDC	10.5 kVA	16.0A	98.30%	three phase solar inverter
RPI153FA0E0000	1000 VDC	15.7 kVA	24.0A	98.30%	three phase solar inverter
RPI203FA0E0000	1000 VDC	21.0 kVA	32.0A	98.40%	three phase solar inverter

M30 30kVA - 50 kVA 230/400 VAC output

Delta's latest revolutionary design "M30A / M50A" transformerless PV inverter is the lightest, smallest, and first wall mountable 50KW inverter in the world, providing flexibility for different large scale higher level PV systems & applications. The IP65 enclosure provides a higher level of protection enhancing durability in outdoor environments.

- Transformerless inverter
- Dual MPP tracker
- Peak efficiency up to 98.6%
- Connect up to 10 strings PV arrays
- Easy & fast connection
- Ergonomics handle design
- Ultra compact size with incorporated ergonomics handle design
- Built-in energy-logger
- IP65 protection level
- Built-in DC switch
- Built-in string fuses (*internal fusing + and -*)
- Built-in AC and DC Type 2 surge protection device

RPI303FA0E1000	1000 VDC	30 kVA	50A	98.5%	three phase solar inverter
RPI503M221000	1000 VDC	50 kVA	80A	98.6%	three phase solar inverter

Accessories

EOE90010381	SOLIVIA gateway M1 G2				
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RPI M15A



M50A