

An energy storage system based on high quality lithium-ion modules.

USE-CASES:

• Self-consumption optimisation of solar and wind power plants

- Storage of surplus energy from renewable energy sources Energies - consumption of this energy when it is needed.
- Increasing the degree of self-sufficiency for a more independent energy supply

• Zero feed-in

- Sell surplus electricity from renewables cheaply and use expensive electricity on demand from the provider
- With the Powercore, you can also use your electricity generated all day long

• Peak-Shaving

- Depending on the customer's demand, the mains supply is limited. The difference between the set upper limit and the demand is compensated by the storage system
- Savings on expensive power charges
- More even power draw from the grid

• Direct connection and control of charging stations

- Relief of the grid connection point through buffer function of the storage unit
- High charging power when charging e-vehicles is absorbed by the storage unit
- The grid connection is more constant and less stressed
- The expensive and time-consuming expansion of grid connection points can be avoided

• Load Management

- Control of different (fast) charging points incl. time and priority control
- Optimize your energy consumption
- Targeted control of large consumers (e.g. pumps, heaters, etc.)

• Achieving CO² neutrality

- By using 2nd-life battery modules with German OEM quality, our storage is a pioneer in terms of CO² neutrality
- The possible savings in energy consumption further increase the effect



KEY ADVANTAGES:

- **Modularity** through modular system and innovative container concept.
- **Efficient inverter technology** with intelligent, **multi-use energy management system** and **high compatibility**.
- **Intelligent battery management system incl.** real-time data acquisition for **maximum safety and performance**.
- Storage units can be coupled up to 2.5 MWh and offer **high supply security** through decentralized topology.
- Direct connection of **(fast) charging stations** up to 260 kW.
- High quality due to in house **production in Germany**.
- **Innovative design** in a 10-foot container for **easy maintenance and high safety**.
- **Sustainability** using tested 2nd-life batteries from the automotive industry.



EASY FINANCE
different ways of finance



EASY LAYOUT
Never waste an inch of precious land



EASY TRANSPORT
Transportable in whole and in part



EASY INSTALLATION
Low requirements for tooling, more convenient for quick connector



EASY MAINTENANCE
Accessible in front, easy and fast replacement

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Configuration

1/3

2/3

3/3

Nominal energy content

186 kWh

376 kWh

558 kWh

Power

88 kW

176 kW

264 kW

Continuous nominal current

440 A per string

Nominal charge/discharge rate

0,6 C

Battery voltage level (operating range)

590 to 755 VDC

Storage architecture

2 Strings
each 10 Batt.

4 Strings
each 10 Batt.

6 Strings
each 10 Batt.

Battery technology

Lithium-ion (NMC)

Battery balancing

Cell-based balancing by the
battery management system

Dimensions

3000 mm | 2500 mm | 2690 mm

Total weight

ca. 5 t

ca. 6,5 t

ca. 8 t

Temperature control

Passively directed fan

Compatible power electronics

1 Refu
Inverter

2 Refu
Inverter

3 Refu
Inverter

Required capacity of auxiliary power supply

16 A, 400 V

Interface for power electronics

Modbus TCP

Standards and guidelines

VDE-AR-N 4105, VDE-AR-N 4110

Transport safety Battery

UN-T 38.3

Multi-Use concepts:



Load peak
management



Self-consumption
optimization



Sale of green
energy



Grid connection
extension

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