

POWER2RAXX: Flexible energy storage optimizes corporate energy use



BU: The POWER2RAXX energy storage system provides a reliable electrical supply indoors and outdoors, even in facilities that are already active early in the morning.

Karlstein am Main, June 14, 2024 – The BMZ Group, a leading specialist worldwide in lithium-ion and sodium-ion battery production, is expanding its product line with a new energy storage system: With individually secured, dynamically switchable multi-string high-voltage battery racks, POWER2RAXX delivers maximum safety and flexibility for industries of every type.

- **The modular POWER2RAXX system allows nearly unlimited expansion of energy and is flexible for a range of usage and cost requirements.**
- **The commercial storage optimizes internal consumption, prevents expensive load peaks, and stores excess current, which is an advantage especially for agricultural operations, bakeries, grocery businesses and food service.**
- **The energy storage solution is available in indoor and outdoor versions, comes with a compatible power inverter and can be easily monitored through an app.**

A reliable energy supply is indispensable for agricultural operations, grocery businesses and processing industries. That is exactly where POWER2RAXX comes in: This efficient commercial storage offers great flexibility through its modular structure and can be adapted to specific requirements. It allows companies to optimize their own consumption and avoid expensive load peaks. Similar to a storage room, POWER2RAXX holds excess current from solar energy systems, combined heat and power systems or wind turbines, and makes it available as needed. In this way,

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the storage solution allows self-determination in the use of existing energy sources and provides an emergency current reserve when needed.

What POWER2RAXX can do: Flexible energy storage for any need

Due to series connection of multiple devices, POWER2RAXX's storage capacity can be expanded almost indefinitely. The basic module has a capacity of up to 51 kilowatt hours, which makes the commercial storage highly scalable in regard to consumption and cost. To cover every possible application, POWER2RAXX comes in indoor and outdoor solutions. The weatherproof outdoor version weighs 820 kilograms and withstands operating temperatures from -20° to 50° Celsius. The robust indoor version weighs 800 kilograms and works in temperatures from 0° to 45° Celsius.

What both versions provide: A compact power inverter that converts DC current produced in solar power systems to AC current, and provides energy transport of large amounts of current with very little loss. With the use of convection cooling and forced convection, the entire system operates with little noise.

Easy, intuitive monitoring with an app

Commissioning the POWER2RAXX system is extremely user friendly and can be handled even by people with little technical experience. An intuitive app allows easy monitoring of status and energy flows from a smartphone, so that users have a simple overview anytime, anywhere.

With a 10-year warranty, the POWER2RAXX is a secure investment, and the energy storage system will provide optimal performance and quick return on investment into the future. POWER2RAXX boasts the following features:

- Usable energy between 32 and 51 kWh
- Nominal voltage between 256 V and 409 V
- Usable capacity up to 125 Ah
- Maximum charging current of 90 A
- Discharge depth 72% of nominal capacity
- Optimal photovoltaic maximum is 75 kWp for the indoor device and 36 to 72 kWp for the outdoor device
- Maximum AC output: Indoor device 66 A // Outdoor device 42 A
- Communication interfaces: CAN/ RS-485/ Ethernet

Please visit www.bmz-group.com for more information about the BMZ Group's line of products. For more information on POWER2RAXX, go to <https://power2raxx.bmz-group.com>.

ABOUT THE BMZ GROUP

The BMZ Group is a global force in development and production of cross-industry lithium-ion and sodium-ion battery system solutions. The company offers the entire value chain from cell to battery and second life to disposal. In addition to supplying the medical, power, and garden tool markets, and providing industrial applications, the BMZ Group prides itself on being THE GREEN ENERGY SYSTEM PROVIDER. In manufacturing home and industrial storage for photovoltaic systems, and batteries for electromobility, BMZ is producing the infrastructure essential to the energy and transport revolution. Focused on climate change and its consequences, this is how the BMZ Group meets its social, economic, and ecological responsibilities. The company's headquarters are located in Germany, with additional production facilities in China, Poland, the US, North Macedonia and Brazil as well as branches in Japan, Hong Kong, the UK, and France. Additional R&D facilities are located across the globe. The BMZ Group employs more than 2,500 people.

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