

PRESS RELEASE

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A new dimension of battery

BMZ develops 3Tron battery with cells in 21700 format

BMZ's new 3Tron battery with cells in the 21700 format sets new standards in terms of capacity and discharge current. With the 3Tron battery, the specialist for integrated battery system solutions from Karlstein has developed a battery with cells in the brand new 21700 format: with a diameter of 21mm and a height of 70mm. Sven Bauer, Managing Director of BMZ GmbH in Karlstein am Main is enthusiastic about the new cell: "Its usable battery capacity is several times that of conventional cells in the 18650 format: you have 60 percent more capacity while being able to use 400% more discharge current at the same time."

3Tron extends battery life to up to 12 years

"The 3Tron battery has more capacity and has to be recharged less. This increases the battery life to up to 12 years," Bauer explains. Each charging cycle makes batteries age. In producing the super cell, BMZ cooperates with the world's leading cell manufacturer Sony. Its manufacturing expertise with more than 300 million cells annually guarantees top quality. The assembly of the 3Tron batteries will take place at BMZ - Europe's new gigafactory. With a footprint of 55,000 m², it is Europe's largest battery factory. BMZ carries out external quality and safety checks in cooperation with Batteryuniversity GmbH.

3Tron increases energy yield by 50 percent

E-bike batteries deliver an operating distance of 80 to 150 km on flat terrain, depending on the support levels, periphery and outside temperature and last but not least on the battery capacity specific to the customer. However, if there are many mountains, the battery runs out of power much earlier. If the battery of an e-bike is exhausted after a long mountain tour, the benefits of this approach fall by the wayside in the truest sense of the word: After having glided along easily and effortlessly, suddenly one has to pedal hard, moving forward a heavy bike of up to 25 kilos. It is this moment when the need for a battery with more endurance becomes clear.

3Tron battery by BMZ defies all previous notions of an e-bike battery. It is the inner qualities of the battery that are especially fascinating. Thanks to a big increase in active cell material as well as stronger conductors and high-quality materials, 3Tron battery increases the energy yield by 50 percent. The lower internal resistance produces 68 percent more output.

BMZ: one step ahead with its research and development team

The highly qualified engineers and IT professionals at BMZ are strong partners in the entire development and production process. BMZ is working closely with external design, housing and safety electronics specialists in order to implement innovations and realise short lead times.

BMZ is the leading system supplier for battery solutions in Europe with production facilities in Germany, Poland, China and the United States. As a system provider and specialist for intelligent solutions, BMZ has attained a pioneering role in the fast growing lithium-ion battery market. With 20 years of experience, over 2,000 customers and around 250 new projects every year, BMZ leads the way in the design and construction of battery systems in Europe. About 1,800 employees work for the BMZ Group, more than 700 of them in Germany. The turnover amounted to around 350 million euros in 2015.

BMZ after-sales service

With innovative and high-quality products and an exemplary after-sales service, BMZ is known for maximum sustainability. In Europe's largest service centre at BMZ, highly trained technicians and professionals with many years of experience in service management are ready to accompany customers throughout the entire lifespan of a product. Worldwide support, a 24-hour hotline, on-site service for business customers and a spare parts guarantee of up to eight years are a matter of course for BMZ.

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