

Power at play

In an age of increasing electromobility, the demand for highly efficient modular and individual lithium-ion battery packs in a range of applications cannot be underestimated

▶▶ When people are asked to think about the future, the image of electrically propelled vehicles will likely come to mind. Nowadays, such vehicles are no longer the preserve of the movie industry and science magazines, with millions of EVs deployed all over the world. Consequently, the need for engineering know-how in this particular area has never been greater than it is now.

As such, Voltabox Deutschland and Voltabox of Texas have created highly efficient, modular lithium-ion battery systems for almost every vehicle type. Taking advantage of the expertise of parent company Paragon, which has developed and manufactured automotive electronic solutions since 1988, Voltabox's battery engineers base their know-how on more than 25 years of experience in ECU, communication and interface development.

Voltabox's portfolio covers traction batteries for hybrid, trolley and electric buses, intra-logistics such as forklifts and industrial trucks, as well as explosion-protected high-power modular battery systems for the mining industry. It also includes highly efficient, lightweight starter batteries for both motorbikes and cars, as well as modular battery systems for the material handling market along with sophisticated traction hybrid batteries for series sportscars and racing cars.

With a focus on achieving the highest possible standards, the use of flexible configurator tools and know-how of hardware and software has led to Voltabox developing a number



Voltabox's new facility in Austin, Texas, USA (above), furthers the company's enhanced processes for application engineering and production of lithium-ion traction battery systems for EVs (below)



of competitive and groundbreaking solutions. These batteries prove their outstanding characteristics worldwide, daily, in large numbers of tough series applications.

Voltabox and premium battery cell suppliers such as Samsung, Toshiba, K2 Energy and A123 work together in privileged partnerships. This collaboration results in direct support, preferentially provided information of upcoming innovations, and the earliest possible use of the newest cell technology. Voltabox CEO Klaus Dieter Frers explains the advantages of this philosophy: "With their high energy density, low-weight and small size, lithium-ion batteries are superior to all other

electrochemical energy-storage systems currently on the market. Furthermore, the number of charging cycles, charging time and usability with low temperatures have been increasing strongly in the last few years and will continue to do so. Consequently, lithium-ion now excels over all other battery technologies. And we have all the prerequisites to handle these advantages in a professional manner and bring the technology and application to the next level."

In July, Voltabox celebrated the grand opening of its new facility in Austin, Texas, USA. About 100 guests participated in the event, which celebrated the company's enhanced processes for application engineering and production. ☉

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