

Battery management systems united kingdom

Oxford, UK, October 6, 2021 Brill Power, an Oxford University spin-out company, today launched the first in a new class of "intelligent" battery management systems (BMS) that are set to revolutionise the performance of stationary energy storage systems to power the future of homes and businesses globally. Brill Power's breakthrough technology will transform the cost and performance of energy storage systems by increasing battery life by up to 60%, enhancing storage capacity by up to 49%, increasing systems uptime and driving down the lifetime operating costs for energy storage systems.

The BrillMS B62 Premium battery management system eschews the compromises inherent in the two existing categories of BMS. Until today, energy storage solutions relied upon either passive balancing or more costly active balancing options in order for batteries to operate safely and efficiently. Brill Power's intelligent battery management system represents a paradigm shift forward for battery performance without reliance on advances in materials or cell chemistry.

With the US Department of Energy already projecting that energy storage solutions will exceed 300GWh by 2030, the merits of driving performance and efficiency into localised energy solutions have been put into sharp focus in recent weeks with exponential rises in wholesale energy prices on global markets. Battery-based energy storage solutions in turn enable renewable sources such as solar and wind to be more dependably used in both domestic and commercial contexts.

The BrillMS B62 Premium is the first in a series of novel BMS product launches from Brill Power intended to transform both the stationary energy storage market as well as the motive application of battery cells in electric vehicles.

The BrillMS B62 Premium is particularly valuable for applications where the battery is a mission-critical component, such as uninterruptible power supplies (UPS), telecoms, medical and defence. The technology has been extensively tested and validated by independent assessment and validation authorities, including DNV, a globally-renowned international accredited registrar and classification society:

DNV, the independent energy expert and assurance provider, has acted as technical consultant through the testing and verification of Brill Power's new battery management system (BMS) technology. This testing confirms that Brill Power's novel BMS concept brings advantages for a number of key battery characteristics like higher utilized pack capacity, that potentially result in lower lifetime cost. DNV also concluded that the Brill Power BMS complies with the functional safety requirements of standards IEC62619, UL1973, UL9540 and VDE-AR-E 2510-50.

Our patented control concept ensures that every single Joule of energy is used during every single discharge

cycle. This means maximal performance, lifetime and reliability.

Brill Power's novel BMS technology brings step-change improvements to batteries, previously only thought to be achievable with innovations in materials or chemistry. The BrillMS enables battery system developers to create the safest, most reliable battery systems while ensuring the lowest possible cost of ownership for their customers.

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