

For Immediate Release

Sendyne Awarded Patent for Novel Battery Pack Architecture

Combines Active Cell Balancing, 95.4% Peak Efficiency DC/DC Converter and Charging Function in a Single Circuit, Allowing Constant Voltage Battery Packs.

New York, New York, October 2, 2014 – Performing true active cell balancing during all stages of operation of a large battery pack extends the life of cells and maximizes the energy delivered during each cycle. However, even taking into account the cost savings accrued through the reduction in pack overdesign afforded by the use of active balancing, many active balancing strategies are prohibitively expensive for most applications.

The Sendyne Constant Voltage Battery Pack Architecture (CVBPA) integrates active balancing, a 95.4% peak efficiency DC/DC converter and charging functionality into a single circuit while providing a fixed constant-voltage output to the load. This architecture enables the implementation of smaller, more efficient, safe and cost-effective battery packs.

The active balancer in the CVBPA manages how much power it draws from each individual cell and is capable of charging specific cells even while the rest of the battery pack is discharging. This novel system was prototyped at the Laboratory for Power Management and Integrated Switch-mode Power Supplies at the University of Toronto, under the guidance of Prof. Aleks Prodic. A US patent was issued, adding to Sendyne's portfolio of patents on cell balancing. Sendyne will make the technology available for licensing to interested parties.

“Sendyne's CVBPA provides an economical solution for improving battery pack performance and increasing longevity,” said Ellen Gooch, Sendyne's Director of Marketing.

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About Sendyne

Sendyne develops key semiconductor components and advanced circuits for the management of battery systems used for grid storage and EVs, as well as innovative tools for battery system design and optimization.

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