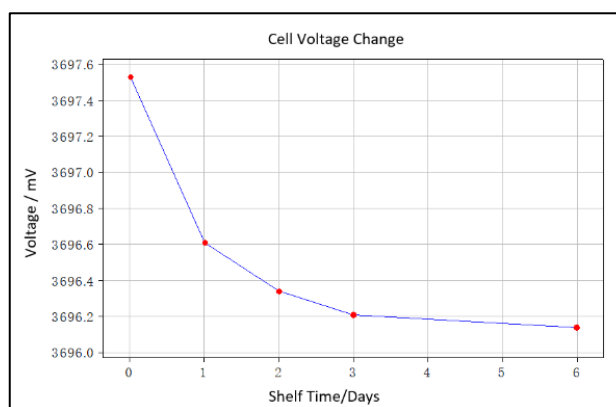
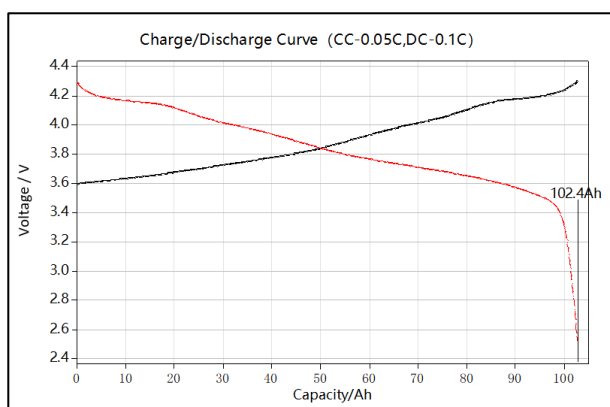


## Enpower Greentech develops world's lightest 100 Ah lithium metal battery

July 10, 2022

Enpower Greentech Inc. has successfully developed a 100Ah lithium metal battery (LMB), another major step in the commercialization of next-generation batteries for electric vehicles. The breakthrough comes on the heels of Enpower Greentech's newly developed ultra-high energy density (450Wh/kg and 520Wh/kg) LMB in 2021, as well as its safety credentials secured in June 2022.

Enpower Greentech's high-capacity battery cell adopts its proprietary flame-retardant electrolyte solution, which enhances safety without compromising performance. The weight of a single cell is 0.821 kg. The cell has a capacity of 102.4Ah (0.1C discharge), a gravimetric energy density of 479Wh/kg, volumetric energy density of 910Wh/L; internal resistance of  $\leq 1.0\text{m}\Omega$ . The cell also has a low self-discharge rate (K value  $\leq 2.0\mu\text{V/h}$ , at 30% SOC), which is less than 10% that of graphite and silicon anode-based traditional lithium-ion batteries.



Enpower Greentech, with subsidiaries in China, Japan, and the U.S., fosters cross-border collaborations to achieve a competitive edge in the development of next generation batteries. It has expanded its product line, developing a 10Ah to 50Ah LMB for the drone and electric aircraft (eVTOL) markets. Enpower Greentech is also developing an all-solid-state LMB and plans to deliver Ah-class pouch cells for external testing by the end of this year. The company plans to start production of 100MWh-scale and GWh-scale LMB manufacturing lines in 2023 and 2024, respectively.

Batteries are now a core technology driving global industry, with multinational automakers and battery manufacturers all competing in the space. On the 10<sup>th</sup> year of its founding, Enpower Greentech has managed to become a world technology leader, especially with respect to battery performance such as energy density and cycle life. In the future, Enpower will continue to improve its battery performance, optimizing its cycle life, fast-charging, and other performance metrics while reducing costs.

Enpower Greentech's team would like to dedicate their work on safer and better performing batteries to their mentor and collaborator Professor John Goodenough, who celebrates his 100th birthday this month.

### **About Enpower**

Enpower Greentech is a battery technology company dedicated to the commercialization of lithium metal batteries, all-solid-state batteries, and other next-gen batteries. The group company has subsidiaries in China, Japan, and the United States, drawing from their regional advantages to drive breakthrough innovations and commercialization. The company works closely with Nobel Laureate John Goodenough, the inventor of the lithium-ion battery, and his lab at the University of Texas at Austin, as well as the inventor of the sulfide-based super-ionic conductors Professor Kano Ryoji and his lab at Tokyo Institute of Technology. It also maintains strategic partnerships with more than 30 established companies up and down the battery value chain. Enpower Greentech's mission is to realize a net-zero carbon future through the promotion of next-generation batteries such as lithium metal and all-solid-state batteries.

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