



Lithium ion battery 320 kWh

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The 320 Ultra provides an increase of 128 Wh of capacity per cell, compared to Great Power's industry-standard 280Ah cells, which is a nearly 15% increase in energy density in the same package size. Uniquely tailored to meet the ever-growing demand for safer, more efficient, longer-lasting batteries, the 320 Ultra is ideally suited for stationary storage, C& I applications, and economy passenger and commercial EVs.

The energy capacity of Great Power's latest-generation solution allows system designers to utilize the battery cell in space-constrained applications without forfeiting performance. Further, the increase in energy density directly translates to an associated reduction in costs for associated hardware, wiring, containers, installation time, and maintenance.

In addition to improved energy density, the 320 Ultra offers over 8,000 high-performance cycles, increasing overall lifetime and reducing the levelized cost of energy. Great Power's battery can be used effectively for over 20 years – reducing maintenance and increasing reliability for developers and designers.

Great Power will be exhibiting at RE+, one of North America's largest renewable energy events, from September 11-14, 2023 (booth number 5153). In addition to a first look at the 320 Ultra, booth visitors will see the company's new line of lithium-ion systems, sodium ion cells, and examples of expanding global projects and manufacturing capacity.

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The BYD Battery-Box LV Flex is a lithium iron phosphate (LFP) battery pack for use with an external inverter. The communication with the inverter is established through the Battery-Box Premium LV BMU (Battery Management Unit). Connect up to 64 LV Flex Modules in parallel on one BMU to reach individual capacities between 5 and 320 kWh. Thanks to its 3U design, the LV Flex can adapt to off-the-shelf racking systems. And with the possibility of stacking up to 4 units or installing them vertically, the LV Flex provides a variety of options for bespoke housing designs.

If the battery needs to be stored for > 3 months the voltage should be 13.2V (50%SOC), and stored at the recommended storage specifications shown above. Additionally, the battery needs at least one charge & discharge cycle every six months.

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