



Solar cell energy storage 120 kWh

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The Sol-Ark Limitless Power 12K[®]; all-in-one battery charging and hybrid on/off-grid power storage unit is the #1 rated power center on consumer reporting source Energy Sage. A veteran owned business, Sol-Ark provides superior product support compared to other similar products. Sol-Ark's customer support is bolstered by assistance with questions, diagnoses, and remote unit management provided by product engineers who are able to solve most problems remotely and without the need to visit your installation location.

Australia-based Relectrify has announced plans to target utility, commercial, and industrial customer applications with the initial release of its ReVolve battery energy storage product, a modular 120 kWh system that uses second-life Nissan Leaf EV battery packs.

The ReVolve battery energy storage system (BESS) is fully integrated with the company's cell-level battery management system (BMS), inbuilt inverter, and control system. It is designed for installations in the 120 kWh to 2 MWh range.

Relectrify CEO Valentin Muenzel said each three-phase unit provides grid-compliant 400-480 Vac output, with 120 kWh of capacity and 36 kVA of continuous power. The units are suitable for both grid-connected and off-grid applications.

The Australian Renewable Energy Agency (ARENA) said Relectrify, which has been working with American Electric Power and Nissan North America on a pilot project, will now finalize development and undertake certifications ahead of the deployment of 20 ReVolve battery units across C&I applications throughout Australia.

"In some ways, we didn't want to develop this product, but the market really pulled it out of us," Muenzel said. "Our pre-sales interest in the product has been very wide, from community battery storage applications, utilities looking for back-up and outage support for weak rural networks, and peak shaving for EV charge installs, to construction and mining services firms interested in stand-alone power supply and genset diesel fuel reduction."

Muenzel said Relectrify's BMS+Inverter technology - which avoids the need for standalone inverters - means the ReVolve is truly competitive price-wise, coming in 30% to 50% lower than comparable products on the market, while offering an expected lifetime of 3,000 cycles. And at a roundtrip AC-to-AC efficiency of close to 90%, he said the second-life BESS compares strongly against new industrial storage systems.

"The storage market needs affordable battery storage, and we are thrilled to achieve this market-leading



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competitiveness with this product from the get-go," Muenzel said. "With Relectrify's cell-level technology seeing increasingly widespread use, we look forward to working with industry leaders to co-develop future products using second-life or new batteries, including for residential, commercial, industrial and grid applications."

Muenzel acknowledged that the launch is an important milestone for the fledgling company. But he said the validation of a high-performing second-life system at a strongly competitive price-point is the much larger milestone.

EV batteries are often considered to have reached end-of-life when they have degraded to 80% of their initial capacity. However, Relectrify is determined to demonstrate the second-life battery remains a valuable and useful asset in stationary storage applications.

ARENA CEO Darren Miller said the project will help to reduce costs and improve pathways for battery storage to be installed at commercial scale, particularly in industrial settings.

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