



# Lg chemical energy storage 350 kWh

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LG, "" ,,,? LG?, ""LG, ""LGLG H& H? ""LG LG CI I?2003 LG EI, LG? 8,15/29?...

Battery, BEV-en, ESS-en, ESG-en

The "Energy Storage System (ESS)" is a device that stores generated electricity for use when needed. ESS plays a crucial role in providing a stable power supply and enhancing the efficiency of new renewable energy usage. LG Energy Solution recognized the importance of ESS early on and is producing ESS products based on competitive technology. Based on this effort, LG Energy Solution is making an effort to create the era of smart grids by expanding the distribution of new renewable energy.

## LG Energy Solution's Competitive Edge in Producing High-Capacity, Compact ESS Batteries

LG Energy Solution showcases various ESS products based on its expertise in developing and manufacturing high-performance, high-quality batteries. It produces ESS for different purposes, including power grid, commercial, residential use, and uninterruptible power supply systems (UPS). It is also focusing on eco-friendly management by recycling waste batteries for ESS.

LG Energy Solution's ESS products have three leading competitive edges. First is the application of highly advanced technology in battery cells for ESS. LG Energy Solution manufactures battery cells using the "Lamination & Stacking" method. This technique efficiently utilizes the space inside the pouch cases, thereby enhancing the energy density and enabling the production of batteries that deliver consistent and uniform energy output. Such stable and high-performance battery cells form the foundation of its quality ESS batteries.

Second is the achievement of high-capacity yet compact-size ESS products for space efficiency. The employment of polymer battery cells has allowed the realization of this space efficiency. Using these cells, LG Energy Solution has created thinner and smaller sizes for both the power grid and residential ESS.

Last is that LG Energy Solution offers customized ESS batteries. It not only provides products in various battery forms like cells, packs, and racks, but also designs ESS products tailored to specific applications and purposes.

## LG Energy Solution's Home ESS Products "Prime+" and "enblock"

LG Energy Solution offers a wide range of ESS products. Among all, let's explore the residential ESS products and technology targeting the North American and European markets.

LG Energy Solution launched Prime+, targeting the North American market. The product lines include Prime+



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10H and 16H. Prime+ 10H has a total capacity of 19.2 kWh, and Prime+ 16H boasts 32 kWh. Both products can use two modules in parallel.

Prime+ is gaining attention in the market thanks to its numerous advantages. Prime+ has an inverter that converts direct current (DC) to alternating current (AC) on-board, facilitating quick and simple installation. Moreover, it only takes 10 to 15 minutes to commission the inverter and ESS battery, which is a notably short time. Another significant advantage is that Prime+ is compatible with existing solar power systems.

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