

Home energy storage vienna

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Zero-carbon living becomes the new fashion

A new benchmark in the residential energy storage industry

One of the key devices for realizing the vision of a zero-carbon household is the residential energy storage system. Huawei FusionSolar's residential Smart String ESS, the LUNA2000-7/14/21-S1 (hereinafter referred to as Huawei LUNA S1), through Module+ architecture innovation, has achieved intergenerational leadership in various aspects, paving a new path for the future development of residential energy systems and setting a new benchmark for the industry once again.

1. Industry-leading 15 years of stable support and 40% higher lifecycle throughput

The Huawei LUNA S1 continues Huawei's unique Module+ architecture, featuring a built-in energy optimizer and utilizing the leading large battery cell (280 Ah) for the first time in the industry, far surpassing the industry level. By optimization at the battery pack level, it delivers over 40% higher energy throughput during the lifespan and achieves an industry-leading 15-year limited warranty* with its high quality and reliability, offering users a longer lifespan and superior investment returns.

2. Five-layer safety enhancement for protection everyday

The Huawei LUNA S1 features a five-layer safety protection mechanism, including cell-level, electrical, structural, active, and emergency protections. It has passed a multitude of safety certifications such as VDE 2510-50, IEC 62169, ISO 13849, IEC 63056, IEC 62040-1, IEC 62477 and UN 38.3 etc., offering users comprehensive safety assurance. The product can adapt to extreme working environments, with a wide operating temperature range of -20 °C to +55 °C, and cover global differentiated scenarios, ensuring green power supply even in icy conditions.

It also supports IP66 level protection and has passed a 72-hour submersion safety test at a depth of 40 cm**, ensuring safety for households.

Furthermore, Huawei has also considered scenarios where the unit is installed in garages, which may involve accidental collisions during vehicle movements or transportation of heavy objects. The casing is designed to be robust, capable of withstanding pressures of up to 5 tons, ensuring safety under external forces.

3. Convenient and smart installation and user experience



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The Huawei LUNA S1 features an internal wiring-free design, and its installation process has been thoughtfully simplified, reducing installation time by half compared to traditional systems, making installations more time-efficient, effortless, and worry-free. It provides super quiet experience (29 dB) and its flexible modular design not only enhances the user experience but also facilitates easy expansion of system capacity as needed.

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Web: <https://kary.com.pl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

