



# LB5E1 Residential ESS Intelligent Energy

How long does a residential ESS system last?

Most residential ESS solutions are Lithium-ion battery (LiB) based due to its high energy density and small footprint. But degradation of LiB system is quite sensitive to application conditions like temperature, and the lifespan of most LiB systems is between 10 and 20 years.

What is residential energy storage system (ESS)?

The residential ESS functions to store intermittent electrical energy from PV modules and provide power supply for backup loadings. The current RRES market is dominated by players from APAC region, North America and Europe, such as LG Electronics, Tesla, Huawei, Enphase, and Siemens [9].

What is ESS & how does it work?

ESS is the effective solution of storing intermittent electricity generated by PV modules. In residential applications, the power flow within household is within 7.36 kW for single-phase, so the residential ESS power is in similar scale, in which Li-ion battery (LiB) based ESS is the most popular solution.

What are the benefits of ESS & PV charging technologies?

The synergy of PV, ESS, and charging technologies can achieve intelligent peak shaving and eliminate the need of reconstructing the power grid for capacity expansion. Customers can flexibly configure fast or ultra-fast charging dispensers as required and enjoy a smooth system evolution in the future.

What are the different types of ESS in residential market?

Following the diverse trend of residential ESS, other types of ESS may enter residential market in one way or the other, such as Vanadium Redox Flow (VRF) ESS and Supercapacitor.

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