



# Solaredge storagedge inverter

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The StorEdge is an all-in-one solution using a single DC optimized inverter to manage and monitor both solar power generation and energy storage. Based on the SolarEdge StorEdge Inverter, Electricity Meter, Monitoring Portal and Auto-transformer, StorEdge Inverter energy storage system controls third-party batteries such as the LG Chem RESU10H or the Tesla Powerwall battery.

The SolarEdge StorEdge inverter is a single inverter for solar PV powered grid-tie applications that also manages DC battery backup storage power. It includes the hardware required to provide automatic backup power to backed-up loads in case of grid interruption. The SolarEdge also includes all of the interfaces needed for DC battery connection.

Not only will you enjoy more self-reliance on power, residential energy storage customers may be able to take advantage of the California Self-Generation Incentive Program SGIP. The SGIP provides incentives for residential behind-the-meter energy storage systems up to 10kW.

A fully featured cloud-based monitoring platform allows one to monitor the battery status, PV production and self-consumption data. Remote access to inverter/battery software allows battery energy level monitoring and shows remaining hours of backup power. This capability will allow smarter energy consumption that can reduce your electricity bill and provide peace of mind.

The SolarEdge meter is used for battery integration and for production / consumption readings for Feed-in Limitation. This RS485 Electricity Meter enables the use of Export Control and Consumption Monitoring for StorEdge Applications. It mounts inside the included NEMA 3R weatherproof enclosure and comes with 2 current transformers.

This separate switching transformer connects to a StorEdge(TM) Inverter to quickly and automatically enable battery backup power. The auto-transformer connects to the StorEdge inverter to enable split-phase balancing for 120V loads, using the inverter's 240V output to power the 120V backed-up loads. It is only needed for StorEdge backup battery power applications, it is not required if the system is working in Smart Energy Management mode.

The StorEdge SE3800A-USS2 & SE7600A-USS2 can support an LG Chem RESU 10H ESS battery module pack. The RESU10H can store surplus energy generated from rooftop solar panels for use when needed. When the sun has set, energy demand is high, or there is a black-out, you can use the energy stored in your ESS to meet your energy needs at no extra cost.

Power Optimizers utilize a fixed-voltage technology to ensure the SolarEdge system is always working at its optimal input voltage over a wider range of string lengths. The SolarEdge power optimizer is connected by



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installers to each module, replacing the traditional solar junction box. The optimizers are designed be as reliable as the solar panels that they are mounted to.

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