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Manufacturer Unveils the First Scalable Solar Energy Storage System

Concept by US says its new Powerstation 247 is the first fully integrated plug-and-play solar energy usage system with built-in battery storage, allowing homeowners to use solar energy, store it, or sell it to the utility.

The company says its product is unlike its competitor, Tesla's Powerwall, which is only a battery. With Powerstation, homeowners get an entire system with inverters and all necessary field wiring, disconnect switches, and batteries included.

"Energy generated by solar panels can be directly used, stored, or, if you have generated overcapacity, the electricity can be fed into the public grid," the company says. The "plug and play" system can be optimized to a homeowner's consumption.

Here is how the system works:

- Solar panels convert sunlight into electricity. This energy can be directly used and optimized to the customer's consumption.
- After charging the battery bank, the system provides energy for the customer's consumption, and if the solar panels have generated overcapacity the electricity is fed into the public grid.
- In the evening or in case of a power outage, the Powerstation 247 automatically switches to battery energy.
- During the night the battery maintains an individual set percentage of its energy for emergency power outages. If the battery capacity is insufficient and energy is needed, then electricity can be obtained from the grid.

The system can be installed on and off grid and comes in three sizes—5, 10 or 15 kilowatt; all have the same battery storage capacity of 17,28 kilowatt hours. Housed in a freestanding cabinet, the system integrates up to three hybrid inverters, solar MPP-trackers, charge controller, and lithium-iron batteries, field wiring terminals, and disconnect switches.

- See more at: http://www.residentialproductsonline.com/manufacturer-unveils-first-scalable-solar-energy-storage-system#st-hash.QnHhnJi3.dpuf