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New, POWERSTATION 247 turnkey technology for rural Off-Gridders who want energy independence

The first fully integrated and UL certified solar energy storage system, with built-in battery storage, for homes and small businesses

The 2010 U.S. census revealed that 59,492,276 people, or 19.3% of the US population live in rural areas.

In the past, off-grid folks in the country who wanted electricity had to cobble together a solar energy storage system using components from multiple manufacturers. It was, at best, a home-grown solution to address a basic need: a predictable supply of electricity far from the power grid.

247 res photo, 3



No Grid? No Problem

In May of 2016 – after years of development – a new, turn-key, solar energy storage system became available in the U.S. that provides steady, reliable, copious electricity to off-gridders, both when the sun is shining and at night.

The **POWERSTATION 247** (<http://www.powerstation247.com>) is a complete, patent-pending, UL certified and fully integrated scalable solar energy storage system with built-in battery storage. The system comes in three sizes, 5 kW, 10 kW, or 15 kW; all have the same battery storage capacity of 17.28 kWh. Its free standing cabinet is easy to install and easy to use. The system integrates up to 3 hybrid inverters, solar MPP-trackers, charge controller and lithium-iron batteries, all necessary field wiring terminals and disconnect switches. It's completely turnkey, includes all software and can be installed on and off grid.

So. Who's an Off-Gridder?

They tend to be an independent bunch, but their fundamental thinking tends to include the following:

They want to use less energy and prefer renewable sources, combined with their values to take responsibility for their energy impact on the planet.

They want complete independence from their local electrical utility for philosophical reasons and they want to eliminate vulnerability from utility outages.

It's just too expensive – think tens of thousands of dollars – to have the utility run a line to their homestead.

Comparing the **POWERSTATION 247** to Tesla's Powerwall

Tesla's Powerwall is only a battery, not a complete integrated system. Consumers can store solar energy in the battery, but in order to actually use the stored energy consumers must buy additional, costly components and have an electrician assemble them on the wall of their house. The **POWERSTATION 247** is a complete system with inverters and all necessary field wiring and disconnect switches and batteries included. Hook it up and plug it in. And, it's available now.

What about the battery?

The heart of the system, the Lithium-iron 96 V battery is ultra-efficient. Lithium batteries are known for longevity and being environmentally friendly. They also provide maximum safety in residential or commercial applications. During the manufacturing process these batteries have been subjected to strict quality and safety tests in the factory. The **POWERSTATION 247** has a battery storage capacity of 17.28 kWh.

If the sun shines you can use this system. Anywhere.

Electricity is available literally anywhere the sun shines – in the home, powering a small business, a vacation home, an RV or even remote islands.

How it 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 solar panel system provides energy for the customer's consumption. 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.

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About Concept by US

Concept by US was established in 2012 in the United States to revolutionize the way consumers think about solar power. Mr. Uwe Corbach, the founder of concept by US received his degree in electrical engineering in 1978 in Germany.

Concept by US has a simple goal: to make clean renewable solar energy accessible and easy to use for everybody. Every home and business should be able to safely use, store and take advantage of clean solar energy- whenever needed. Day and night. With the **POWERSTATION 247** the sale of solar PV systems will increase again, because now the end-consumer can finally use the green energy that their PV system is generating.

For the past five years Mr. Corbach has put together a high-powered project team of R&D scientists and engineers, software developers, product designers and marketing professionals.

The company works with highly reputable companies and partners that have established a record of quality for many years. All products manufactured by concept by US are certified in accordance with international quality and environmental standards. The **POWERSTATION 247** is UL certified and specifically designed for the US market.

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