

http://www.solarnovus.com/powerstation-247-solar-energy-storage_N10006.html

Intersolar North America 2016: Powerstation 247 solar energy storage

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

The Powerstation 247 from a company called Concept by US 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.



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.

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.

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.

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. Powerstation 247 will be at Intersolar North America in San Francisco, California (US) from 12 to 14 July 2016 in booth 8221.

See more at: http://www.solarnovus.com/powerstation-247-solar-energy-storage_N10006.html#sthash.SZsGitnJ.dpuf