



POWER
STATION 247™




**SOLAR ENERGY
DAY AND NIGHT**





Delivering autonomy
and independence

 **POWERSTATION 247** is manufactured by concept by US corporation.
For more information visit: concept-us.com

What is the **POWERSTATION 247?**



The **POWERSTATION 247** is an innovative, vertically integrated renewable energy system for projects, large and small, for you the homeowners and you the business owners - offering energy autonomy and efficiency without dependence on outside sources.

Electricity consumption is currently at its peak, not only because of the increased population growth, but also due to the development of new home appliances and electrical gadgets. Fortunately, renewable energy sources such as solar and wind turbines are now playing a significant role in the global energy mix. As a result, the demand for energy storage and usage systems is also growing.

The **POWERSTATION 247** delivers clean, renewable solar energy into your household. Now you can contribute to a clean and environmentally sound global future, while the system provides autonomy and independence for you and your family.

The **POWERSTATION 247** was developed for you- the new or existing solar/PV customer - who chooses not to be dependent on traditional energy supplies generated by polluting fossil fuels. With the **POWERSTATION 247** you will have a more efficient use of energy, an alternative source of electricity and total autonomy and control of your proprietary energy consumption.

Take control of your solar energy

The all-in-one, sleek and compact **POWERSTATION 247** fits conveniently in most storage locations and provides ease of use, while maximizing energy production - around the clock - without supplemental dependence.





Why we need the **POWERSTATION 247**

When replacing fossil fuels with renewable energy resources, we have significant potential to reduce greenhouse gas emissions.

Power outages



A power outage is a short-or long-term loss of the electric power to an area. Outages may last from a few minutes to a few weeks, depending on the nature of the blackout. Outages usually occur during natural disasters, such as hurricanes, flooding or earthquakes, and they can have devastating effects. However, today more and more power outages occur due to peak load demands that destabilize the public grid.

POWERSTATION 247 protects your quality of life and adds great value to everyone who wants peace of mind. With solar generated power you can have energy autonomy, and during grid outages and extreme weather events, it will give access to uninterruptible backup power.

Every minute, enough sunlight falls on our planet to meet the world's energy demand for one entire year.

Fossil fuels and renewable energies

Our earth contains a finite supply of fossil fuels: petroleum, commonly referred to as oil, coal and natural gas. Fossil fuels are non-renewable resources because they take millions of years to form, and reserves are depleted much faster than new ones are made.

The burning of fossil fuels produces carbon-dioxide (CO2) which is one of the greenhouse gases that contributes to global warming.

The environmental impact of the electricity generation is significant because modern society uses large amounts of electrical power. This power is normally generated at power plants that convert, almost solely, energy derived from fossil fuels into electrical power. Today more than 80% of the electrical energy in the U.S. is generated from non-renewable sources.

Renewable energy is energy that comes from natural resources such as sunlight, wind, rain, tides, waves and geothermal heat - which are renewable because they are naturally replenished at a constant rate. Although renewable energy is already used, and large companies have been producing electricity through wind and solar for decades, still it is submitted to consumers through the electricity provider and the grid. Utility electricity rates have been increasing for years, and with the end of the fossil fuel supply in sight, rates will only continue to rise.

POWERSTATION 247 is a reliable system that stores and uses the energy that is generated through solar panels and intelligently distributes it to the places of need in your everyday life - whenever you need it.



New technology and innovation

You can add the **POWERSTATION 247** to your new or existing PV systems. There are no more product hurdles such as diverse systems sourced from different manufacturers; expensive and time-consuming installations; large, awkward equipment.

The **POWERSTATION 247** eliminates all these barriers and opens the solar market to everyone. Solar generated energy can be directly used or stored. Moreover, the system operates both on and off grid. If the system generates over-capacity, the energy can be easily fed back into the grid, and during power outages the system automatically disconnects from the grid and powers your site autonomously.



Remote monitoring via internet.

Add it to your new or existing solar panel system

No additional electronic components are needed. It is as easy as, One, Two, Three.

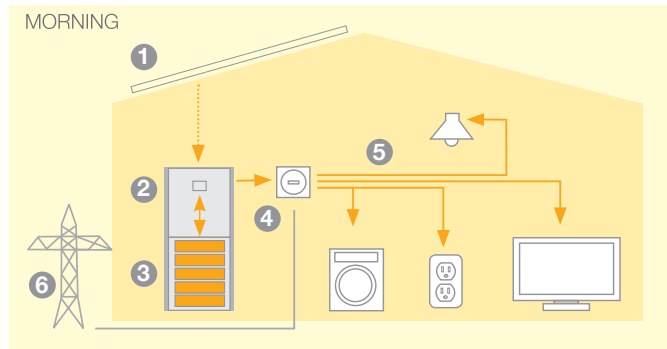


“YES”, solar generated energy can be directly used or stored

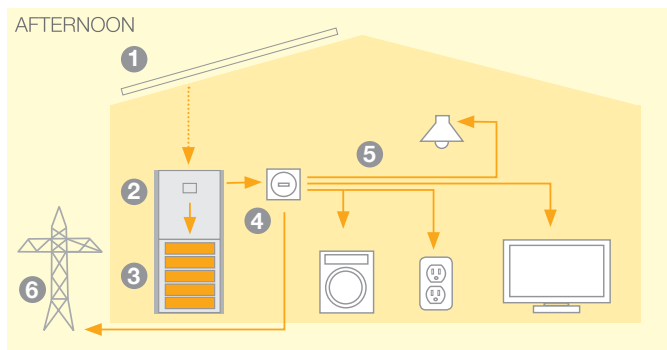
- Integrated “All-In-One” solution.
- Energy storage and usage.
- Solar energy, day and night.
- Backup power during a power outage.
- Operates on and off grid.
- UL certified, highest quality and safety.
- Zero carbon emissions.
- Safe, and clean lithium-iron batteries.
- Monetize extra stored power by selling it back to the local grids.
- Remote monitoring via internet.
- Delivered and installed in only a few hours.
- Modular architecture with easy service and maintenance.
- Add it to new or existing PV system.

How it works

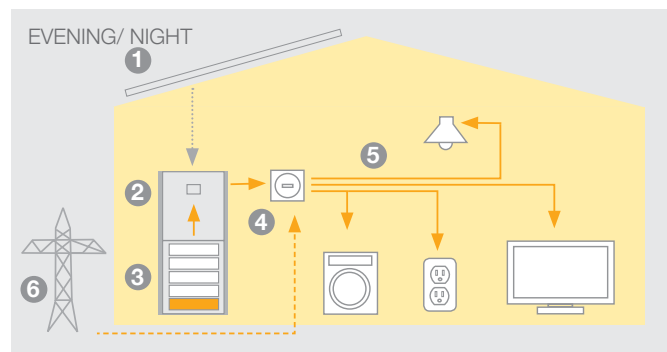
- 1 SOLAR PANELS
- 2 POWERSTATION 247
- 3 INTEGRATED BATTERY BANK
- 4 APPLIANCE DISTRIBUTION
- 5 APPLIANCES
- 6 PUBLIC GRID



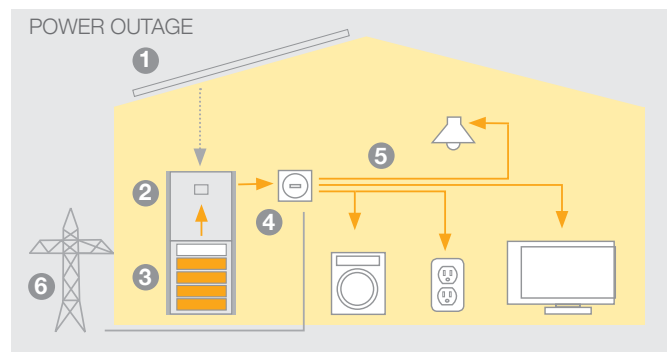
Solar panels convert sunlight into electricity. With the **POWERSTATION 247** this energy can be directly used and optimized to one's own consumption.



After charging the battery bank, the system provides energy for one's own consumption and if the solar panels have generated over-capacity the electricity is fed into the public grid.



During late afternoon the solar harvest decreases, while the energy need in your household increases. The battery replaces exactly that amount of energy that is not delivered from the PV modules. In the evening, the **POWERSTATION 247** automatically switches to battery energy. If the battery capacity is insufficient and energy is needed then the electricity can be obtained from the grid. The battery remains an emergency capacity to cover the night if a grid failure occurs.



If the public utility fails the **POWERSTATION 247** changes to stand-alone mode and powers the connected home appliances until the battery is empty. Every solar harvest is added to the battery reserve to extend emergency power and duration. When the utility returns, the system automatically switches back to utility-interactive mode.

The benefits of having a **POWERSTATION 247**

SOLAR ENERGY AROUND THE CLOCK

Solar energy can be used in the entire house, during the day and night. Any time.

SELF-SUFFICIENT AND INDEPENDENT

You can be independent from utility companies, power outages, politics or rising electricity costs. You can have complete autonomy.

ENERGY PRICE STABILITY

Generating electricity with the sun is free, so the energy price is locked-in.

EMERGENCY BACKUP SYSTEM

If the public grid goes down due to unpredictable weather conditions or due to grid-instability, **POWERSTATION 247** automatically switches to emergency power.

TAX INCENTIVES

Solar energy storage and usage systems are eligible for a number of federal, state, and local financial incentives that can reduce the installation costs. (Differs by state)

SAVE THE PLANET

Using eco-friendly energy in your everyday lives helps reduce carbon dioxide emissions.

PEACE OF MIND

For your home, business, vacation home or cabin. When nobody is there, the **POWERSTATION 247** works.

OWN YOUR GAS STATION

Fuel up electric vehicles for free in your driveway or on your business premises.

ISLAND SOLUTION

With the **POWERSTATION 247** electricity can be anywhere - in your home, powering your business, a vacation home, RV or even remote islands.

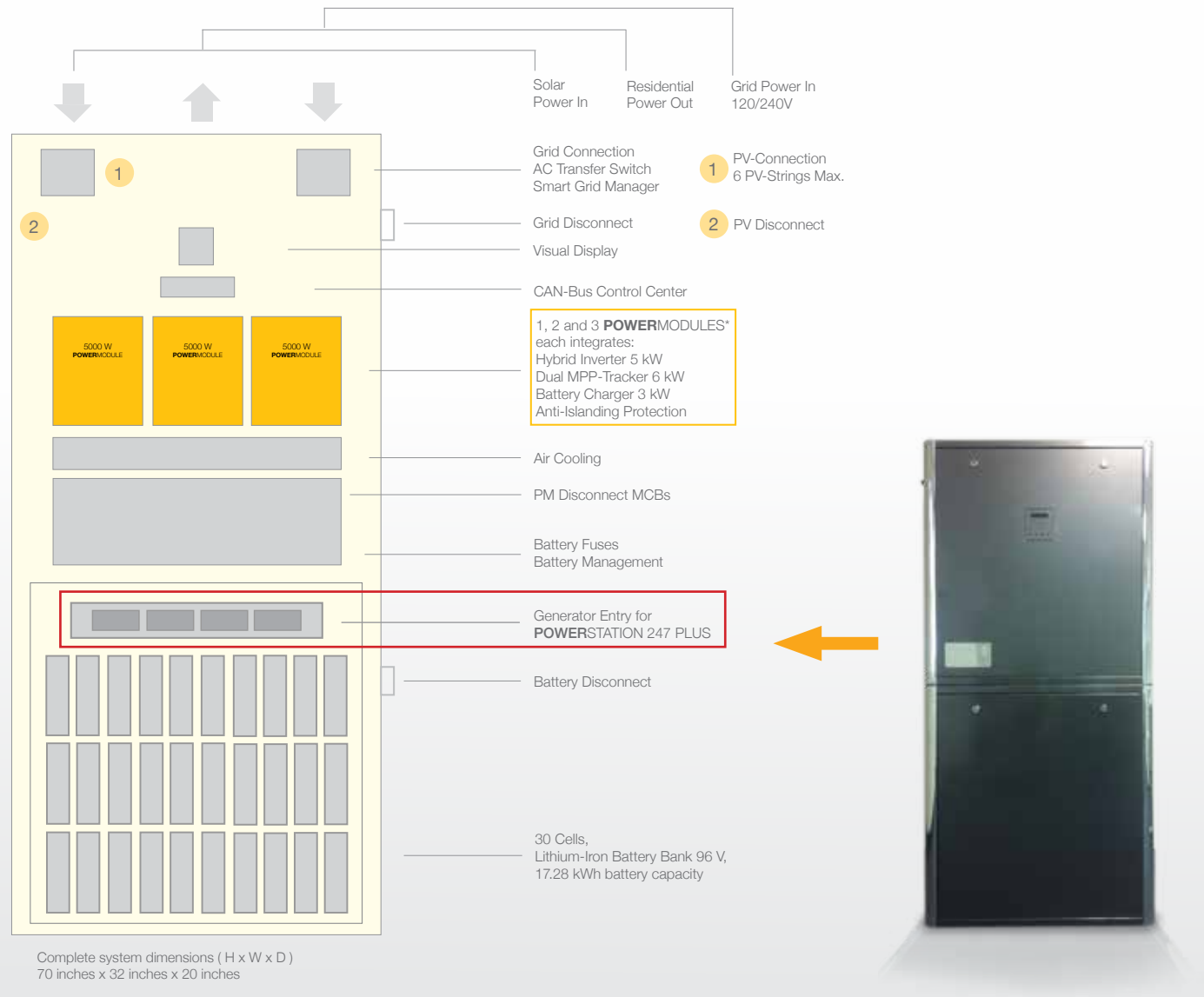
Take a look inside

The **POWERSTATION 247** is a fully integrated scalable system 5 kW, 10kW or 15 kW, and has a 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; also all necessary field wiring terminals and disconnect switches. It is truly and uniquely 'plug and play'.

The **POWERSTATION 247 PLUS** is as an enhancement of the standard unit, equipped with an additional modular AC to DC power converter to feed energy of external AC-sources (external generators or 2nd grid connection) directly into the battery circuit. The rectifier set is integrated into the battery enclosure and may be equipped with 2-4 rectifier modules, 1.75 kW charge power for each module.



UL	1741
IEEE	1547
IEEE	1547.1
UL	1642
NEC	COMPLIANCE
WARRANTY	10 YEARS



Trust and peace of mind with UL certification and international quality



This innovative energy storage and usage technology should be recognized for its value in offering multiple benefits for you and your family. With the **POWERSTATION 247** you can transition to clean renewable energy that does not emit new greenhouse gases into the atmosphere. You can use clean and environmentally friendly solar energy every day and during power outages.

The **POWERSTATION 247** is made in the USA, and is certified in accordance with international quality and safety standards. It has been UL certified by the accredited laboratory INTERTEK.

An investment in the Powerstation 247 will provide an autonomous, cost effective, ecologically positive, leading-edge energy alternative, revolutionizing the way the U.S. consumer will use solar energy going forward. In all ways, the **POWERSTATION 247** is an investment in the future.

- UL 1741
- UL 1642
- IEEE 1547
- IEEE 1547.1
- NEC (National Electric Code) compliance
- 10 year warranty
- 20 year lifespan

Come join us for a better future.



POWERSTATION247.com

Ask your solar specialist for
more information about the
POWERSTATION 247™

AVAILABLE AT:

