



BACK-UP POWER SOLUTIONS

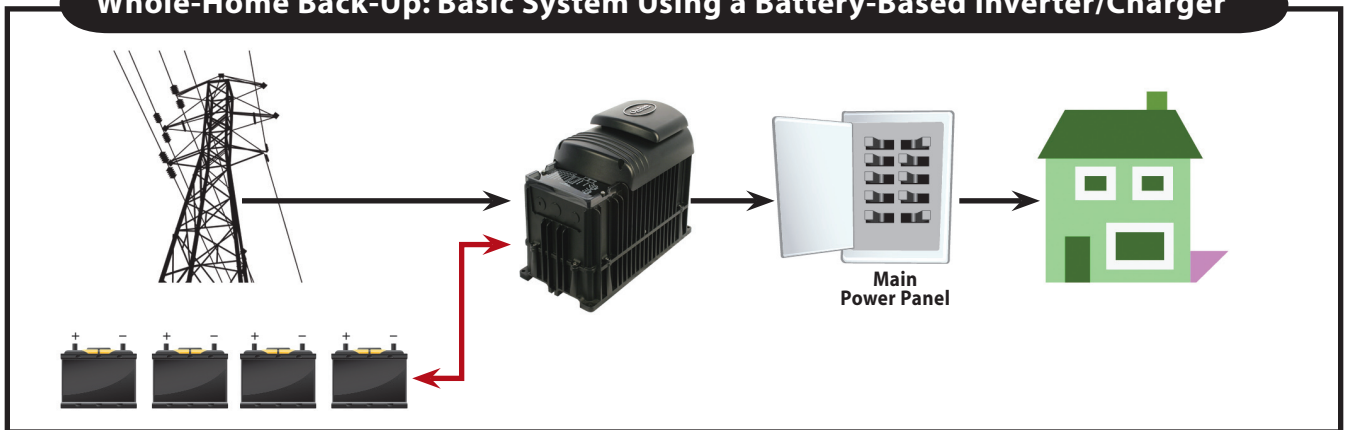
OutBack inverter/chargers are designed to provide clean, reliable, true sine wave back-up power that seamlessly works with any equipment without the electrical buzzing associated with modified sine wave inverters (some equipment will not work at all). In the event of a utility power outage, our equipment provides virtually instantaneous transfer to battery back-up power.

The OutBack inverter/charger is designed to work with larger battery banks providing much longer run times than traditional uninterruptible power supplies (UPS's). Our robust design allows our system to work in conjunction with generators that often output very low quality power to provide even longer run times (several days or longer) with the added benefit of greatly reducing the generator's fuel consumption. All of our inverters are protected in rugged, cast aluminum housings, and the sealed models offers another level of protection in harsh environments.

A single inverter can supply up to 3.6 kW with a 48V battery and additional inverters can be "stacked" to provide up to 36 kW in size (3kW to 30kW with 230V, 50Hz units). Our inverters can be used in single phase, split phase, or three phase in every country around the world.

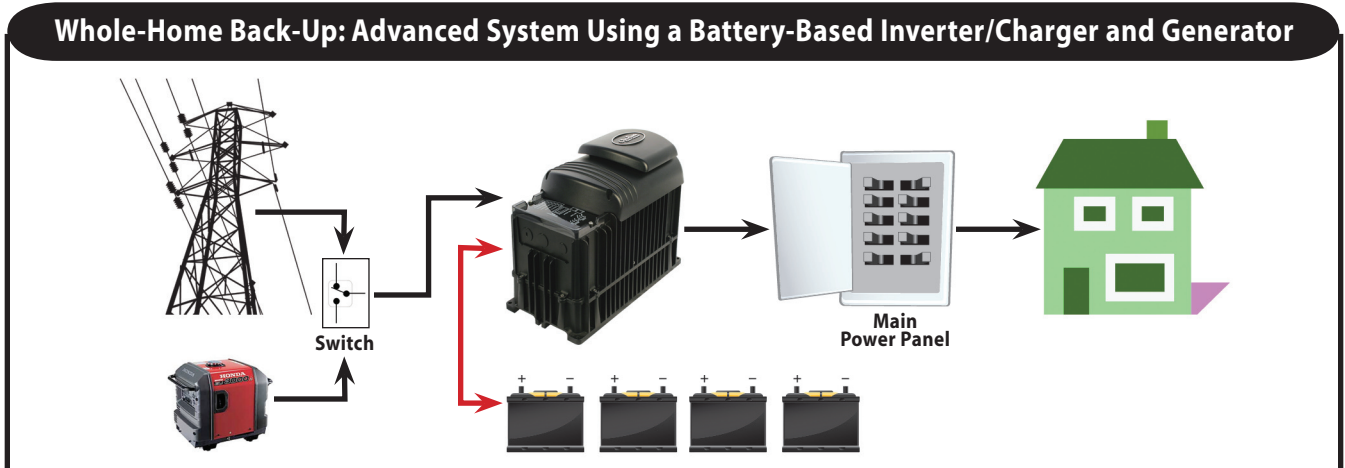
- **UPS Quality Back-Up**
- **MPPT Charge Controller**
- **True Sine Wave Inverter/Chargers**
- **Rugged Design**
- **Up To 93% Efficient**
- **Modular**
- **Stackable**

Whole-Home Back-Up: Basic System Using a Battery-Based Inverter/Charger

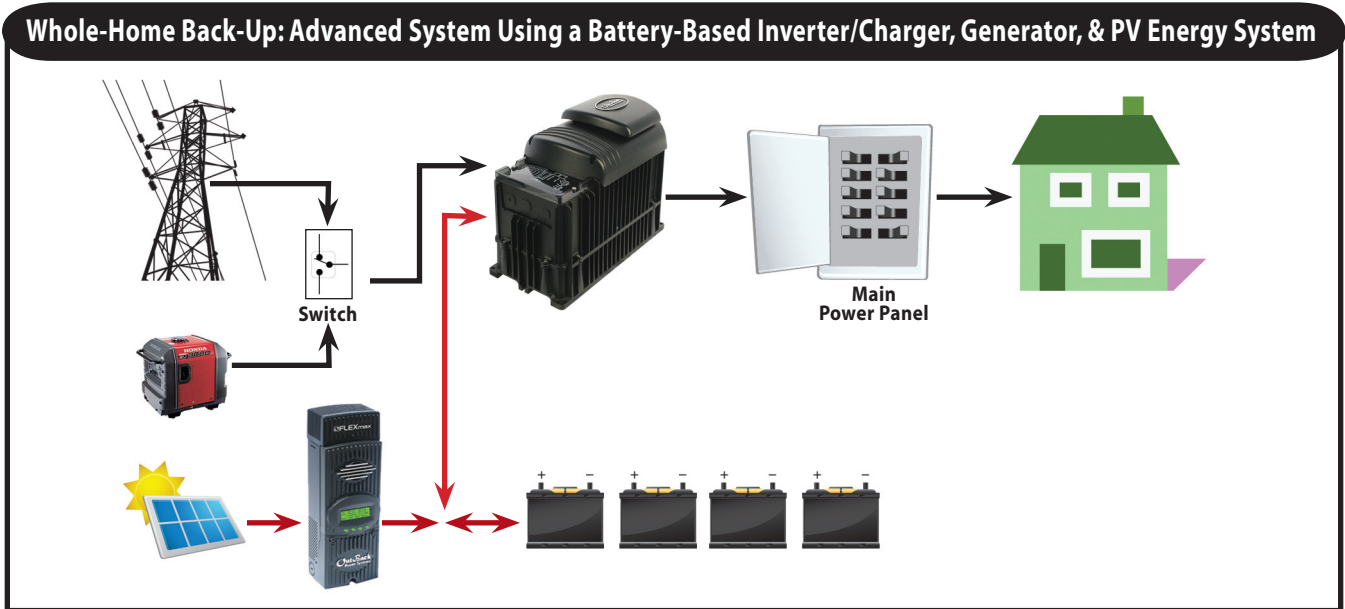


An advanced system includes a generator to help power a home during an extended blackout. When the batteries get low, the home loads are switched to the generator, which is also used to recharge the batteries via the inverter's built-in charger.

Whole-Home Back-Up: Advanced System Using a Battery-Based Inverter/Charger and Generator



A hybrid system includes a PV energy system as well as a generator to help power a home during an extended blackout. The PV array silently helps to recharge the battery bank and power home loads. This reduces generator run time and helps conserve precious generator fuel.



An alternative to backing up an entire home is to back-up specific important loads during a blackout. This strategy allows for longer run time of fewer loads and/or the option of a smaller overall back-up system.

