

## AC Coupling Grid Tie Inverters With OutBack Battery-Based Inverters

### Overview

This application note will show how to add battery storage to a grid-tied (GT) inverter that is limited to photovoltaic (PV) solar conversion only when the utility grid is active. By adding a battery-based (BB) inverter like those from OutBack, the GT inverter can remain active with a grid outage as the OutBack inverter becomes the new AC source to which it can synchronize. This allows the GT inverter to continue converting DC power from the PV array to usable AC power for the site's local electrical loads.

**Adding energy storage through AC coupling:** For the owners of the more common grid-tied, grid-dependent inverters, there is a way to tie in a battery-backup inverter system using a method called AC Coupling. It typically requires adding a load center with circuit breakers and electrical connections for the building's critical loads. This allows a point at which the GT inverter and the BB inverter to "couple" and share their energy to the loads. In a normal mode of operation with grid power available, the energy from the PV array flows through the GT inverter to the critical load panel, with any excess energy flowing through the load panel to the BB inverter, and on out to the grid (see Figure 2).

When grid power is lost, the BB inverter activates an internal transfer switch which opens its connection to the grid. This keeps the inverter from trying to power other homes on the grid, as well as keeping energy off the power lines so utility workers don't get shocked. The BB inverter also provides a power source to the GT inverter that keeps it online and "inverting" the DC power to AC power for the critical loads (see Figure 3). When the sun goes down and the PV power is no longer flowing through the GT inverter to the loads, the power stored in the batteries will now provide power to the critical loads panel until morning (see Figure 4 on the next page).

When the sun comes out the next day, the system reverts to the power flow as shown in Figure 3, with any extra energy used for recharging the batteries. If no excess energy is available, then some manual load-shedding (divesting of less critical loads to prioritize the most critical, such as lighting and refrigeration) may be necessary through the turning-off of the critical load panel connected devices until the batteries are charged. If the critical loads are absolutely essential and load shedding is not an option, then adding a generator to the backup system can satisfy the critical load demand while charging the batteries.

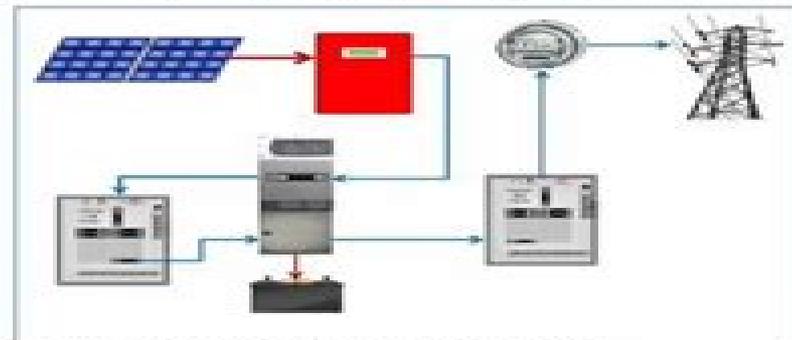


Figure 2 – Current path when grid is present.

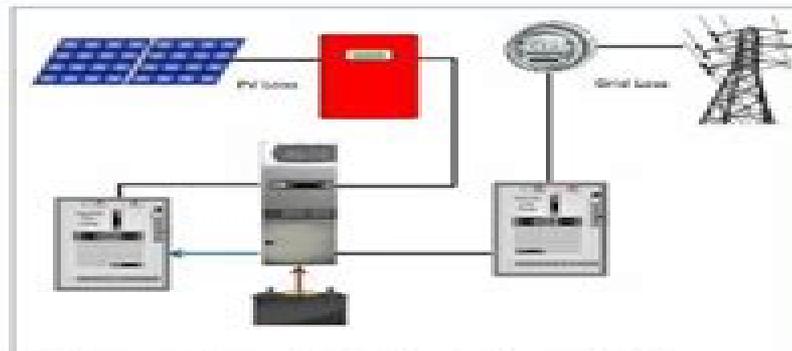


Figure 3 – Current path when grid power is lost.

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