

AMERESCO SOLAR

Green • Clean • Sustainable

AC Coupled Battery Backup Systems with Outback Inverters

Did you know that grid-tied solar electric power systems are unable to provide electricity to your home or business when the utility grid becomes unavailable? Even on sunny days?

AC coupled battery backup systems, offered by Ameresco Solar, provide an ideal way to add battery backup security to your existing grid-tied photovoltaic (PV) system.

Installations of AC coupled battery backup systems typically do not require modification to current PV systems. Furthermore, the ability to avoid additional roof work helps facilitate a safe, fast, and trouble-free installation.



System Sizing

Please give us a call for exact system sizing.

1-855-437-6527

Our AC coupled battery backup systems automatically transfer power from batteries to the dedicated loads when the utility grid is offline. The batteries remain fully charged when the utility is present to ensure the longest run time when the utility fails. The included MATE3 system controller can automatically start and stop the generator to maximize charge and minimize fuel usage.

Incorporation of a backup generator with your grid-tie system will add peace of mind and increase the length of time power is available during an outage.

Our AC coupled system allows you to sell power to the grid and also use your solar panels to charge your batteries when the utility fails.

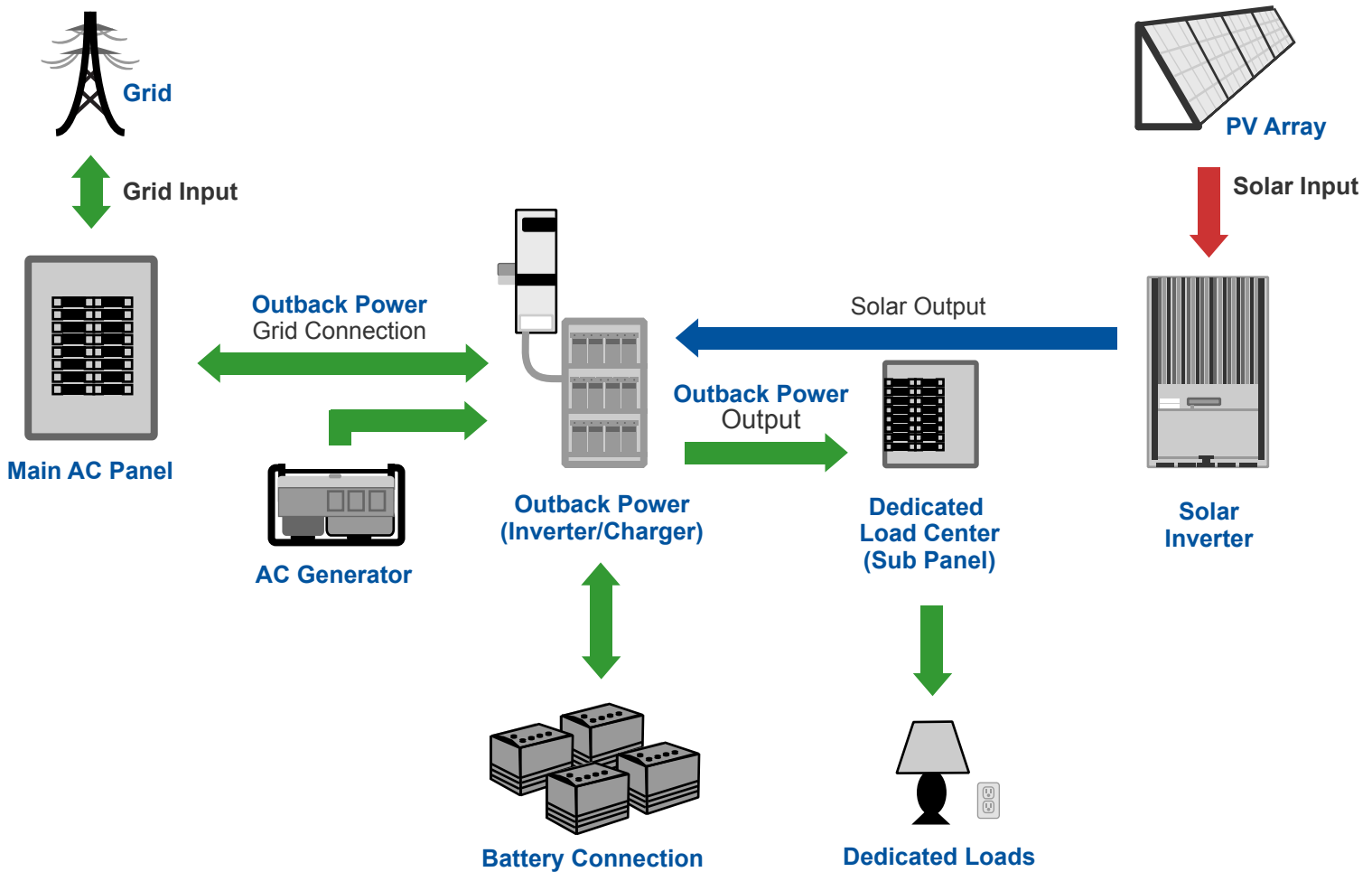
Benefits of emergency backup power include:

- **Security**
- **Lighting**
- **Refrigeration**
- **Heating**
- **Communications**
- **Entertainment**
- **Water pumping**
- **Electric Doors and Gates**

Nearly all household electrical needs can be addressed using our battery backup systems. Note that depending on system sizing, running high resistance electrical heating such as electric dryers, electric stoves and electric heat for long durations is not recommended.

For businesses the benefits are simple - no lost revenue, no down time, and no wondering when power will be restored.

AC Systems Current Flows



System includes:

- Outback Power Radian (4kW or 8 kW) Inverter - multiple inverters can be added for larger systems
- Radian GS prewired load center
- MATE3 system controller
- Outback Power FM80, 80 Amp charge controller(s)
- Battery cables
- Batteries and enclosure (if needed)
- System wiring diagrams

Installer to supply needed dedicated load center and AC wiring and conduit.

Batteries

You can rely on our extensive experience with battery-based solar electric systems to help you select a battery bank to meet your specific power needs.