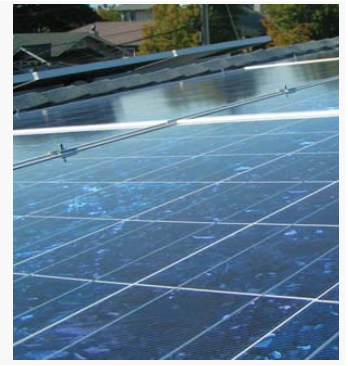




Custom Power Solar



Custom Power Solar Energy Storage Systems

Components made in the USA

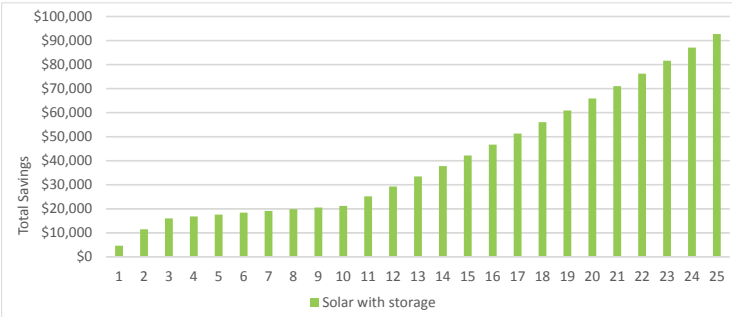
Custom Power Solar (CPS), provides a complete, pre-packaged, assembled, and wired system for homeowners and installers looking for a simple, all-in-one solution to providing solar power systems with energy storage. We use Outback Power Radian inverters and charge controllers and lithium ion batteries from Enerdel, based in Indiana. The Custom Power Solar Energy Storage System, manufactured in California, is available in 4kw and 8kw models.

The CPS Solar Energy Storage (SES) system comes pre-assembled as a unit on a 3/4" ply backing, ready to be mounted on a wall in your basement or garage, with batteries shipped separately. Batteries come in two parts for the 4 kW system, and load easily into the two steel cases, with battery cables included. The 8 kW system batteries come in four parts, with four steel cases. Installation completes with typical 1" EMT conduit for connection to the solar installation, grid tied and power output connections.



CPS Solar Energy System 4kw/7.55kwh

- Online and local monitoring and control
- Full BMS with local and remote monitor
- Grid-tied or Off-Grid modes, with blended Grid-Zero mode for shifting load usage
- Up to 12kw (50A) in grid-tied mode with 200A option
- 240VAC single phase split 240/120
- Rapid shutdown option - one button emergency push-to-shutdown remote control



Savings financed by HELOC over 10 years

Features

Model 4kw (Also available in 8kw option)

- 4kw Inverter
- 4kw Charge Controller - solar module input (option)
- 7.55kwh Lithium battery storage

1442A Walnut St. #368
 Berkeley, CA 94709
www.custompowersolar.com



Tel (510) 912-4662
 Made in the USA
info@custompowersolar.com

Custom Power Solar Energy Storage Systems

Size: 75" x 48" x 9" on 3/4" high grade ply backing
Weight 190lbs without batteries
335 lbs with batteries

Options

200A grid-tied option

For systems where customer plans to operate routinely over 50A of operation from home load, the 200A option adds a 200A Automatic Transfer Switch which automatically switches the load system from grid-tied to the backup system in the event of a power failure. The ATS can also be remotely controlled by the Radian system.

Adding Battery Backup to Existing Solar

If you already have a solar system but want whole home battery backup, request a system without the charge controller and indicate your inverter model.

Rapid Shutdown

The Rapid Shutdown option adds a single button switch with display LED in a NEMA 3R externally mountable, lockable case. When the bright red Rapid Shutdown Button is pressed for 2 seconds, it will shutdown the inverter, charge controller, connection from the battery & power connected from the combiner on the roof.

Wireless Control and Monitoring

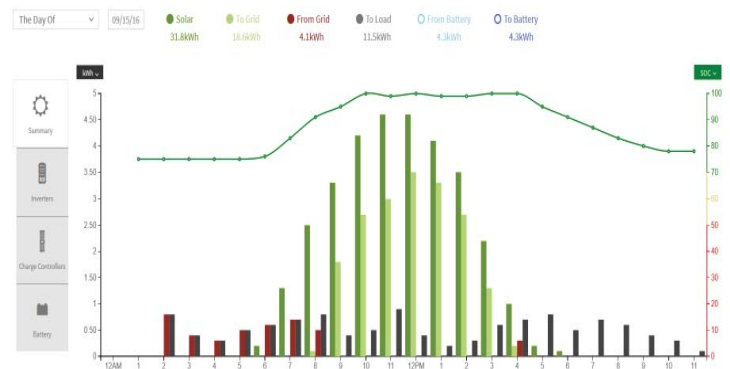
Outback OpticsRE cloud-based monitoring and control is included with the Radian inverter. In addition, the system can be wirelessly monitored and controlled from a mobile phone.

Warranty

Outback Power provides a standard 5-year warranty for their Radian inverters and charge controllers. For states such as California that require a 10-year warranty, Outback provides an extended warranty option at an additional charge. Enerdel provides a 1-year warranty on the batteries. Custom Power Solar provides a 1-year service warranty for the batteries, with an optional 10 year service warranty for systems located in California.

Other Benefits

Energy security for those unforeseen events that affect the grid. When the grid fails, power instantly transfers to the solar/battery combination to power your home.



Load-shifting

How Does Load-Shifting Help Me?

Solar Renewable Energy is saved by the battery during the day. This power is used during the evening hours to support the energy needed without using energy from the grid—hence the term: **Grid-Zero**.

In this example load shifting starts at 5 pm, so some grid power is accessed at 4 pm. Looking at the line at the top of the chart, the battery energy level is decreased as the power is used to support the load in the evening hours from 5 pm to 10 pm. The battery energy is replenished the next day from solar power in the am. This schedule can be manually set, or pre-set to run automatically. The amount of time the battery can support the load in the evening is determined by a number of factors, including the load, the size of the battery, the temperature and the charge state of the battery.

Lower Utility Bills

- **You save money by not utilizing higher cost electricity during the evening hours**
- **You may be able to use the battery energy storage to help charge your electric vehicle**
- **You help keep the air clean by reducing the need to burn fossil fuels for power during peak demand times**
- **In the future you may be able to participate in demand response programs sponsored by your utility or Community Choice energy service provider**

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