

New P-Box Off-Grid Power Cabinet

Solar-Powered AC Energy Out of a Box

September 2016

Phocos North America

We're introducing our newest turnkey system, the P-Box Off-Grid Power Cabinet. P-Box is a solar-powered, pre-assembled electronics enclosure that supplies AC, DC or hybrid power in residential, commercial and light industrial applications.

At the heart of the P-Box is the proven performance of our solar charge controllers and inverters.

What's added is our decades of off-grid expertise to design a prewired, pre-assembled all-in-one cabinet that's both cost effective and reliable.

PV and Optional AC Power

Power supply to the P-Box can be PV, AC or both. PV is standard for off-grid applications.

An optional AC power supply can be added for charging batteries and powering AC loads where grid power is available but unreliable. In these unreliable grid applications, PV can charge the batteries to provide a continuous supply of energy during grid outages. When solar conditions are not optimal, AC can provide backup power to PV.

The P-Box can simultaneously use PV and AC power to charge batteries and power loads to supply constant energy to critical and



sensitive loads when both PV and AC are available.

Automatic change-over relay (ACR) is another option that ensures constant power to critical loads in the event of a service outage in grid-tie applications. ACR switches loads to battery backup within milliseconds once a service outage occurs and automatically switches back to grid power when service is restored.

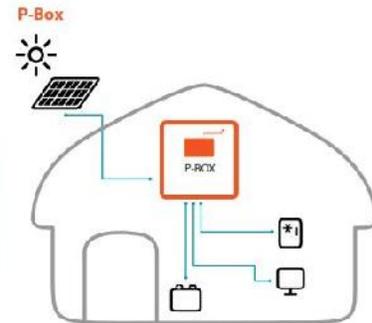
Just Add PVs and Batteries

P-Box is a fully integrated cabinet that offers three advantages:

- Simplifies purchase decisions with only PV modules and batteries needed
- Fewer electronic components for distributors to stock
- Quick and easy installation with its plug and play design

Mini to PRO Models Offer Up to 10.5kW Output Power

There are four models that offer flexibility in standard assemblies of



solar chargers and inverters per model:

Mini for 12V systems; 350W output power

Basic for 24V systems; 700W-2kW output power based on assembly

Advanced for 24 to 48V systems; 1.5kW-3.5kW output power based on assembly

PRO for 48V systems; 7kW-10.5kW output power based on assembly

Single-phase and three-phase power options are available based on the AC load and resistive load requirements.

Phocos Quality All in One Box

Like our other off-grid systems, the P-Box is easy to install and maintain. Our high-quality components, design and reliability improve the uptime of power systems in one simple box.

See our [2017 Product Catalog](#) for standard models and assemblies.