

## SkyBox True Hybrid Energy System by Outback Power



Price: CAD \$5,999.00

**SKU:** OPSBX5048-120/240

**Product Categories:** [Hybrid Inverters: Pre-Wired](#), [Inverters](#), [On The Roof](#), [Pop Picks For Homes](#), [Shop](#)

**Product Tags:** [5kW](#), [all-in-one](#), [battery back-up](#), [canada](#), [grid tie](#), [hybrid](#), [off-grid](#), [outback SBX5048-120/240](#), [outback SBX5048-120/240 canada](#), [outback skybox canada](#), [SBX5048-120/240](#), [skybox](#), [skybox canada](#), [solar energy system](#), [storage](#)

**Product Page:**

<https://www.modernoutpost.com/product/skybox-true-hybrid-energy-system-by-outback-power/>

### Product Summary

This is the SkyBox by Outback Power. SkyBox makes smart solar simple by incorporating advanced technology into single-box design. Trust the engineers at

Outback to build such a breakthrough in the field of advanced power conversion, processing and control. The fully integrated design of the SkyBox system eliminates external charge controllers and communication boxes, significantly cutting installation time and cost. Ease-of-installation makes this energy solution ideal for anyone interested in building their solar power system with battery storage.

**Model: SBX5048-120/240**

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The SkyBox is a 5kW AC output inverter at its core, with two built-in advanced MPPT solar charge controllers for your PV array (up to 6kW!). SkyBox installs like a grid-tied inverter, but with support for energy storage, which is easy to install later. Compatible with the latest battery technologies like lithium, SkyBox is highly flexible - so you can use grid-tied solar today, then add batteries at a later time, and go off the grid completely.

SkyBox allows you to enjoy the benefits of a grid-tied PV system with the independence of an off-grid system. Ideal for anyone looking for back-up energy while working with Net Metering programs. Or simply program the SkyBox to maximize your internal household energy consumption from solar/battery, thereby minimizing your utility purchase each month.

Outback's OPTICS RE monitoring is always in view on the LED display, or anywhere with an internet connection.

## SkyBox Highlights

- Easy and fast to install, a clean balance-of-systems, all in one box
- Extensive quality and reliability testing, including Highly Accelerated Life Testing (HALT)
- Dynamic power management with the ability to support any new regulations
- Backup power and support for time-of-use optimization
- Compliant with California rule 21 and Hawaii 14H grid support requirements
- Energy management based on time-of-use and demand charge rate structures to reduce total energy costs
- External current transformers provide three key functions - - Compliance where the utility does not allow power to be fed back to the grid (Net-zero Export)
- Renewable Energy Credit (REC) monitoring for added revenue from participating utilities
- Energy management based on time of use and demand charge rate structures to reduce total energy costs

## EMS integration

- Configurable battery discharge current limit
- Lithium SoC Tracking
- Drop down menu for quick selection of third-party lithium (SimpliPhi, Blue Ion, etc)
- CSIP certified with firmware version 1.5 and above

## SkyBox Battery Compatibility

The following batteries are supported with EMS 2.0:

- All EnerSys Lead-Acid
- Discover AES
- Blue Ion 2.0
- Fortress eVault
- SimpliPhi PHI 3.5/3.8
- Alt-E KiloVault HLX

Of course, you can use just about any lead-acid AGM, tubular gel, nano-carbon, or other battery platform.

## SkyBox Operating Mode Summary

- Time-Of-Use Optimization - serve loads from PV 1st, then use least expensive power available (ie. from Grid or Battery)
- Self Consumption - serve loads from PV 1st (PV production is automatically adjusted to match load). Also ensures no power flow to the Grid if Export is prohibited.
- Net Metering with Battery Backup - excess PV generation is sold back to the Grid when available

## SkyBox Specifications In Brief

Grids and Loads AC Voltage : 120/240V (split-phase)

AC Frequency : 60Hz Max

Continuous AC Output Power (@45°C) : 5000VA (derate above 45°C)

Max Continuous Output Current : 24A @ 25°C

Integrated Arc Fault, Ground Fault, Monitoring : Yes

Power Factor at Rated Power : 1

CEC Weighted Efficiency : >94%

Typical Inverter Efficiency : >97% Transformerless, Ungrounded : Yes

### **Solar PV Input**

Max PV System Voltage : 600V

MPPT Voltage Range : 250 to 600V

Max Input Current : 20A Max Short-Circuit Current : 32A

### **Battery**

Unassisted Load Support from Battery Only : 5000VA

Nominal DC Battery Voltage : 48V

Battery Voltage Range : 42 to 60V

Operating Modes

- Immediate Battery Backup Power : Yes
- Grid Support (UL 1741 SA) : Yes
- Islanding Protection : Yes
- Net Metering : Yes
- Non-Export : Yes
- Maximum Independence : Yes
- Configurable Battery Charging Parameters : Yes
- Prioritized Charging from Renewables : Yes

### **General**

Weight (lb/kg): 110.6 / 50.2

Dimensions H × W × D (in/cm) : 47 × 21 × 9.4 / 119.4 × 53.3 × 23.9

Operating Temperature Range : -20 to 60°C

Field-Upgradable Firmware : Yes

Chassis Type : NEMA 3R

Listings/Certifications : UL 1741 SA, CSA 22.2 No. 107.1, UL 1778, HECO Rule 14H

SRD, CA Rule 21 SRD, IEEE 1547-2003, IEEE 1547.1-2005

Downloads

## **Datasheets**

SkyBox Datasheet

SkyBox Brochure

## **Manual Downloads**

SkyBox - Technical Documentation

## **Warranty and Other Downloads**

SkyBox Firmware Updates

SkyBox Rapid Shutdown Kit

Warranty Information - English / Spanish

Product Change Notice - Lithium-ion Batteries

Compliance Document - IMO FireRaptor

Compliance Document - Tigo TS4 Module Platform

String Sizing Tool

SkyBox w/ BOS STEP File

SkyBox Wall Bracket STEP File

## **Product Attributes**

- Dimensions: 1 &times; 1 &times; 1 cm

- Weight: 55 kg

## Product Gallery

