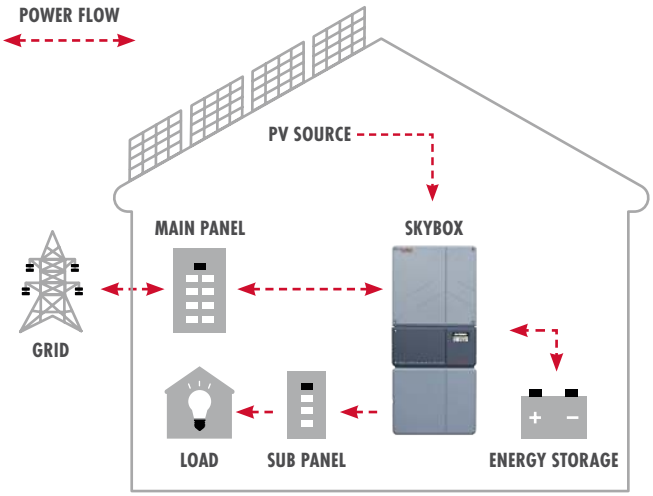
OutBack POWER™
an EnerSys company

# SkyBox™

## True Hybrid Energy System with EMS 2.0


- Works with the widest variety of 48V battery chemistries, including lithium-ion
- EMS 2.0 provides easy configuration for EnergyCell and leading lithium-ion batteries
- Backup power and support for time-of-use optimization
- Easy and fast to install, with a clean balance-of-systems, all-in-one box
- Field upgradable software
- Compliant with California rule 21 and Hawaii 14H grid support requirements
- Extensive quality and reliability testing, including Highly Accelerated Life Testing (HALT)




**Easy to install and easy to own, SkyBox from OutBack Power brings a new level of resilience, simplicity, intelligence and adaptability.**

SkyBox installs like a grid-tied inverter, but with support for energy storage, which is easy to install later. A fully integrated design eliminates external charge controllers and communication boxes, significantly cutting solar + energy storage installation time and cost. EMS 2.0 takes the guesswork out of battery installation. It supports external CTs and stacking multiple Skyboxes in parallel, each with their own battery. SkyBox intelligently measures and controls power to and from any connection point (utility, solar, battery, generator and load), dynamically optimizing energy distribution, consumption and utilization—perfecting the way power is created, consumed, stored and sold. With SkyBox you can leverage the economic benefits of energy storage for time-of-use optimization and peace of mind backup power. Not ready for batteries? Install SkyBox now and add energy storage later. No need in the future to retrofit the PV or AC coupling.

| **Model:** | **SBX5048-120/240** |
|---|---|
| **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 |
| **Total Harmonic Distortion** | **Typical:** <2% **Maximum:** <5% |
| **Integrated Arc Fault Detection, Ground Fault Detection & Isolation and Monitoring** | Yes |
| **Power Factor at Rated Power** | 1 |
| **PV Input** | |
| **Max PV System Voltage** | 600V |
| **MPPT Voltage Range** | 250 to 600V |
| **Max Input Current** | 20A |
| **Max Short-Circuit Current** | 32A |
| **Max Backfeed Duration** (To Array) | <8ms |
| **Reverse-Polarity Protection** | Yes |
| **CEC Weighted Efficiency** | >94% |
| **Typical Inverter Efficiency** | >97% |
| **Transformerless, Ungrounded** | Yes |
| **Battery** | |
| **Unassisted Load Support from Battery Only** | 5000VA |
| **Nominal DC Battery Voltage** | 48V |
| **Battery Voltage Range** | 42 to 60V |
| **Reverse-Polarity Notification** | Yes |
| **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, to allow/disallow charging from AC for compliance with local regulations |
| **Prioritized Charging from Renewables** | Yes |
| **Additional Features** | |
| **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 |
| **RoHS** | Yes, directive 2011/65/EU |
| **Weight** (lb/kg) | **Unit:** 110.6 / 50.2 **Shipping:** 134 / 60.8 |
| **Dimensions H × W × D** (in/cm) | 47 × 21 × 9.4 / 119.4 × 53.3 × 23.9 |
| **Operating Temperature Range** | –20 to 60°C |
| **Non-Volatile Memory** | Yes |
| **Field-Upgradable Firmware** | Yes |
| **Chassis Type** | NEMA 3R |

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