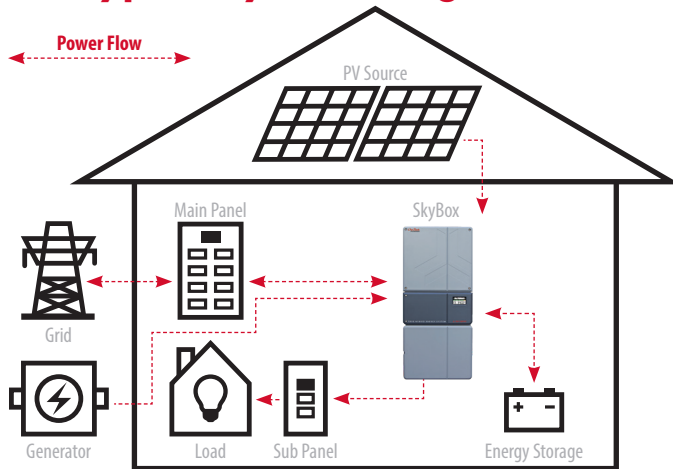




## Typical System Integration



## Features:

- Extensive quality and reliability testing, including Highly Accelerated Life Testing (HALT)
- Field upgradeable software
- Backup power and support for time-of-use optimization
- Compliant with California rule 21 and Hawaii 14H grid support requirements
- Works with the widest variety of 48V battery chemistries, including Lithium ion
- NEMA 3R
- Easy and fast to install
- Clean balance-of-systems, all in one box
- High PV voltage input allows long strings
- Dynamic power management
- Configure and take charge of your solar with any internet-connected device and OPTICS RE

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

OutBack leverages the collective expertise and resources that come from Alpha's 40+ year history of designing, manufacturing and testing resilient power solutions. 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.

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 with no retro-fitting of the PV system or AC coupling.

Model: SBX5048-120/240		
GRID 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	250-600V
	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
Nominal DC Battery Voltage		48V
Battery Voltage Range		42-60V
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 x W x D (in/cm)	47 x 21 x 9.4 / 119.4 x 53.3 x 23.9
	Operating Temperature Range	-20 to 60°C
	Non-Volatile Memory	Yes
	Field-Upgradable Firmware	Yes
	Chassis Type	NEMA 3R