

INVERTER-CHARGERS

FX2000

The OutBack FX2000 is a 2 kW continuous rated modular "building" block sine wave inverter/charger which can be used for both small and large power systems. Each OutBack FX2000 inverter/charger module is a complete power conversion system - DC to AC inverter, battery charger and AC transfer switch. Additional inverter/chargers can be connected at any time in either parallel (120 VAC), series (120/240 VAC), or even three-phase (120Y208 VAC) configurations, allowing the system to be tailored to the specific power conversion requirements of the application, both at the time of the installation and in the future. The FX2000 will also be available in export versions with 230 vac 50 hz output that can be connected in parallel (230 VAC) or in three phase (230Y400 VAC) configurations. Up to eight FX2000s can be connected together to provide up to 16 kW of continuous power conversion capacity.



The OutBack FX2000 is designed to survive harsh environments anywhere in the world. Our unique sealed, gasketed die-cast aluminum chassis protects and keeps the power conversion components cool - without requiring outside air to be blown through the sensitive electronics. This reduces the major causes of inverter failure - corrosion, dust, insect and animal damage. The FX2000 can be used in high ambient applications up to 60°C with reduced output ratings.

The OutBack FX2000 inverter/charger system is designed for both residential and commercial stand-alone and utility-interactive applications with battery energy storage. It is designed to operate as a coordinated system with the other OutBack products i.e. the PSDC, PSAC and PSR enclosures as well as the MX60 MPPT charge controllers and MATE system controller and display.

SPECIFICATIONS	FX2024	FX2048
Continuous Power @ 25°C	2000 VA	2000 VA
Nominal DC Input Voltage	24 VDC	48 VDC
Nominal AC Voltage & Frequency	120 VAC 60 Hz	120 VAC 60 Hz
Continuous Output @ 25°C	16 amps AC RMS	16 amps AC RMS
Idle Power (120 VAC output, no load)	12 watts DC typical	12 watts DC typical
Efficiency (peak)	97%	97%
Total Harmonic Distortion (voltage)	Less than 2%	Less than 2%
Output Voltage Regulation	+/- 2% typical	+/- 2% typical
Surge Capability		
5 Sec Rating	3500 watts resistive	3500 watts resistive
1 mSec	50 amps peak	50 amps peak
100 mSec	35 amps RMS	35 amps RMS
20 minutes	25 amps RMS	25 amps RMS
AC Input Current	60 amps AC maximum (adjustable)	60 amps AC maximum (adjustable)
Automatic AC Transfer Relay	60 amps AC @ 120 VAC	60 amps AC @ 120 VAC
AC Input Voltage Range	90-140 VAC (adjustable)	90-140 VAC (adjustable)
Frequency Range	54-66 Hz (adjustable)	54-66 Hz (adjustable)
Power Factor of Charger	Greater than 0.9	Greater than 0.9
DC Input Voltage Range	20-33 VDC	40-66 VDC
Rated DC Current at Full Power	100 amps	50 amps
Continuous DC Charge Rate	55 amps DC @ 24VDC	30 amps DC @ 48 VDC
Operating Temperature Range	-40°C to 60°C - Power derated above 25°C	-40°C to 60°C - Power derated above 25°C
Environmental Rating	Waterproof to IEC 529 IP65	Waterproof to IEC 529 IP65
Warranty	Two years parts and labor Optional Extended Warranty	Two years parts and labor Optional Extended Warranty
Inverter Dimensions	16.25" L x 8.25" W x 11.5" H	16.25" L x 8.25" W x 11.5" H
Shipping Box Dimensions	21.6" L x 12.75" W x 15.5" H	21.6" L x 12.75" W x 15.5" H
Shipping Weight	60 lbs. - 27.2 kg	60 lbs. - 27.2 kg

Preliminary - Specifications subject to change without notice