

INVERTER-CHARGERS

FX series

The OutBack FX series is a modular "building block" sine wave inverter/charger that can be used for both small and large power systems. Each OutBack FX inverter/charger is a complete power conversion system - DC to AC inverter, battery charger and AC transfer switch. Additional FX inverter/chargers can be connected at any time in either parallel (120 VAC), series (120/240 VAC), or three-phase (120Y208 VAC) configurations. This allows a system to be tailored to meet the specific power conversion requirements of the application, both at the time of the installation and in the future. The OutBack FX series is also 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.

The OutBack FX 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 FX can be used in high ambient applications up to 60°C with reduced output ratings.

The OutBack FX series inverter/charger system is designed for both residential and commercial stand-alone or back-up power 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	FX2548
Continuous Power Rating at 25°C	2000 VA	2500 VA
Nominal DC Input Voltage	24 VDC	48 VDC
Nominal AC Voltage / Frequency	120 VAC / 60 Hz	120 VAC / 60 Hz
Continuous Output at 25°C	17 amps AC RMS	21 amps AC RMS
Idle Power (with AC output / no load)	18 to 20 watts DC (<i>typical</i>)	21 to 23 watts DC (<i>typical</i>)
Efficiency (<i>typical at 25°C & 75% load</i>)	92% (<i>powering 1500 watts of resistive load</i>)	93% (<i>powering 1875 watts of resistive load</i>)
Total Harmonic Distortion (<i>voltage</i>)	2% typical / 5% maximum	2% typical / 5% maximum
Output Voltage Regulation	+/- 2% typical (<i>steady state load conditions</i>)	+/- 2% typical (<i>steady state load conditions</i>)
Surge Power Capability - AC output		
Peak (<i>1mSec</i>)	45 amps AC	56 amps AC
RMS (<i>100mSec</i>)	32 amps AC	40 amps AC
Overload Capability (<i>from 25°C start</i>)		
5 second	3800 VA	4800 VA
5 minutes	3000 VA	3300 VA
30 minutes	2500 VA	2800 VA
continuous	2000 VA	2500 VA
Automatic AC Transfer Relay	60 amps AC @ 120 VAC	60 amps AC @ 120 VAC
AC Input Current	60 amps AC maximum (<i>adjustable</i>)	60 amps AC maximum (<i>adjustable</i>)
AC Input Voltage Range	90-140 VAC (<i>adjustable</i>)	90-140 VAC (<i>adjustable</i>)
Frequency Range - AC input	54 - 66 HZ	54 - 66 HZ
DC Input Voltage Range	20 - 33 VDC (<i>adjustable low battery cut-out</i>)	40 - 66 VDC (<i>adjustable low battery cut-out</i>)
Recommended DC Breaker	OBDC-175 (<i>175 amps DC - 1.5" wide</i>)	OBDC-100 (<i>100 amps DC - 1" wide</i>)
Continuous Battery Charger Output	55 amps DC	30 amps DC
Battery Charging Regulation Method	5 stage (<i>bulk/absorb/float/silent/manual EQ</i>)	5 stage (<i>bulk/absorb/float/silent/manual EQ</i>)
Operating Temperature Range	-40°C to 60°C (<i>derate 20VA/°C over 25°C</i>)	-40°C to 60°C (<i>derate 20VA/°C over 25°C</i>)
Environmental Rating	Waterproof to IEC 529 IP 65	Waterproof to IEC 529 IP 65
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	62lbs. - 29.4 kg
Warranty	Two years (<i>optional extended 5 yr warranty</i>)	Two year (<i>optional extended 5 yr warranty</i>)
Suggested Retail Price	\$ 1,795.00	\$2,245.00

Specifications subject to change without notice