



MATE
MX60 Charge PV
MPPT Controller

Additional
OBDC-175

PSDC-175

FX or VFX Inverter/chargers

2-FXA Kits

PS2 Mounting Plate

PS2AC50D X240
Breakers

HUB

Typical 4.0kw-7.2kw, 120/240VAC, 60Hz Off Grid PS2 Power System

Postage

OutBack
Power Systems

www.outbackpower.com

OutBack Power Systems FX & VFX

Sinewave Inverter/Chargers

MODULAR RUGGEDIZED TRUE SINEWAVE

FX Series

Sealed
Extremely Rugged



US & Canada

Made in USA

VFX Series

Ventilated
Bug Proof



US & Canada

Made in USA

EXTREMELY RUGGED

Built to survive dust, bugs, even rain and salt air.
Choice of sealed FX or bug-proof VFX versions

ULTRA CLEAN AC POWER

Smooth, true sinewave AC output waveform -
not a "34 to 52 step" sinewave approximation

EASY SYSTEM EXPANSION

Systems can grow with your needs - up to ten
inverter/chargers can be stacked for up to
36,000 watts of continuous AC power

HIGH SURGE POWER

Proprietary current control system allows
starting of larger motors than by other inverter
designs

INTELLIGENT BATTERY CHARGER

Advanced charging algorithms provide fast
recharging while increasing battery life

FIELD SERVICEABLE

Both FX and VFX inverter/chargers can
be upgraded or serviced - even in the field

VERY QUIET

The sealed FX inverters are virtually silent
The bugproof VFX inverters only have a
variable speed thermostatically controlled fan.
No more transformer buzz to annoy you.

NETWORKED COMMUNICATIONS

All of OutBack products can be connected
together to form a network with monitoring and
control via a single MATE display

SIMPLE TO OPERATE

Everything works automatically. The system
can be installed and programmed and then
the MATE system controller can be removed
for totally goof proof operation

CAPABLE TECH SUPPORT HELP

You can call or email and ask questions of the
engineers that designed your products -
Tech support doesn't get any better than that.

COOLNESS FACTOR

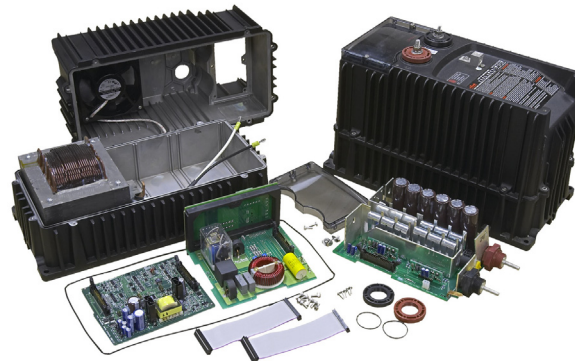
These inverters have a built in "WOW" factor to
impress the neighbors and in-laws.



INVERTER SERIES	FX	VFX
Modular Building Block Design	X	X
Sealed Construction	X	
Ventilated Construction		X
Ruggedized / Tropicalized	X	X
Rain-proof / Splash-proof	X	
Bug-proof Construction	X	X
Environmentally Tolerant	X	X
Die-Cast Aluminum Chassis	X	X
High Temperature Tolerant	X	X
Built-in Battery Charging System	X	X
Built-in AC transfer Switch	X	X
Compact Size	X	X
Networked Communications	X	X
Programmable AUX output	X	X
Two wire gen start	X	X
Cooling fan power	X	X

Disassembled FX Series

Assembled FX Series



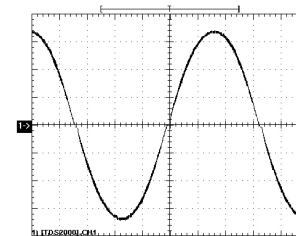
DOMESTIC VERSION - 120VAC 60Hz

Inverter/Chargers Model No.	FX2024	FX2548	VFX2812	VFX3524	VFX3648
Continuous Power Rating 25° C	2000W	2500W	2800W	3500W	3600W
Nominal DC Input Voltage	24	48	12	24	48
Nominal AC Input Voltage/Frequency	120VAC / 60Hz				
Continuous AC RMS Output Current	17 amps	21 amps	23.3 amps	29.2 amps	30 amps
Idle Power (Sleep-<3watts)	18-20W	21-23W	19-21W	18-20W	21-23W
Efficiency at 75% power & 25° C	92%	93%	>90%	92%	93%
Total Harmonic Distortion (typ/max)	2% / 5%				
Output Voltage Regulation	±2% TYP				
Surge Power Peak (1mSec) AC	70 amps		56 amps	70 amps	
Surge Power RMS (100mSec) AC	50 amps		40 amps	50 amps	
Overload (from 25° C start) 5 sec	4800W	4800W	4800W	5000W	5000W
Overload (from 25° C start) 30min	3200W	3200W	3200W	4000W	4000W
Automatic AC transfer Relay	60 amps AC				
AC Input Current (adjustable limits)	60 amps AC				
AC Input Voltage Range	100-130VAC				
Frequency Range - AC Input	50-70 Hz				
DC Input Range	20-33V	40-66V	10-16V	20-33V	40-66V
Recommended DC Breaker	OBDC-175	OBDC-100	OBDC-250	OBDC-250	OBDC-175
Continuous Battery Charger amps DC	55	35	125	85	45
Shipping Weight	60 Lbs / 27kg		62 Lbs / 28kg		

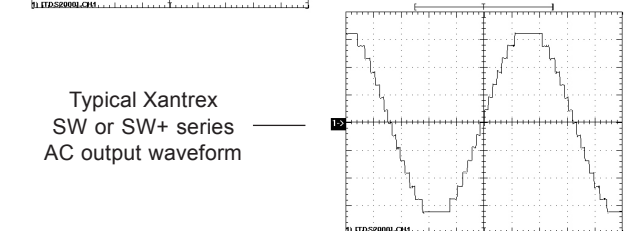
EXPORT VERSION - 230VAC 50Hz

Inverter/Chargers Model No.	FX2024E	FX2348E	VFX2612E	VFX3024E	VFX3048E
Continuous Power Rating 25° C	2000W	2300W	2600W	3000W	3000W
Nominal DC Input Voltage	24	48	12	24	48
Nominal AC Input Voltage/Frequency	230VAC / 50Hz				
Continuous AC RMS Output Current	8.7 amps	10 amps	9.6 amps	13 amps	13 amps
Idle Power (Sleep-<3watts)	18-20W	21-23W	19-21W	18-20W	21-23W
Efficiency at 75% power & 25° C	92%	93%	>90%	92%	93%
Total Harmonic Distortion (typ/max)	2% / 5%				
Output Voltage Regulation	±2% TYP				
Surge Power Peak (1mSec) AC	35 amps		23 amps	35 amps	
Surge Power RMS (100mSec) AC	25 amps		20 amps	25 amps	
Overload (from 25° C start) 5 sec	4600W	4600W	4600W	4600W	4600W
Overload (from 25° C start) 30min	3100W	3100W	3300W	3300W	3300W
Automatic AC transfer Relay	30 amps AC				
AC Input Current (adjustable limits)	30 amps AC				
AC Input Voltage Range	200-260VAC				
Frequency Range - AC Input	40-60 Hz				
DC Input Range	20-33V	40-66V	10-16V	20-33V	40-66V
Recommended DC Breaker	OBDC-175	OBDC-100	OBDC-250	OBDC-250	OBDC-175
Continuous Battery Charger amps DC	55	35	100	85	45
Shipping Weight	60 Lbs / 27kg		62 Lbs / 28kg		

WAVEFORMS



Typical OutBack
FX or VFX series
AC output waveform



Typical Xantrex
SW or SW+ series
AC output waveform