



MATE MX60 Charge PV MPPT Controller  
 Additional OBDC-175  
 PSDC-175  
 GTFX or GVFX Inverter/chargers  
 2-FXA Kits  
 PS2 Mounting Plate  
 PS2AC50D  
 HUB  
 Typical 5.0kw-7.2kw, 120/240VAC, 60Hz Grid-Tie PS2 Power System

Postage

**OutBack**  
 Power Systems  
 19009 62nd Ave. NE  
 Arlington, WA. 98223  
 360-435-6030

www.outbackpower.com

# OutBack Power Systems

GRID-TIE / UTILITY INTERACTIVE CAPABLE

MODULAR  
 RUGGEDIZED  
 TRUE SINEWAVE  
 MULTI-FUNCTIONAL  
 INVERTER / CHARGERS

GTFX Series  
 Sealed Grid-Tie  
 Environmentally Tolerant  
 GTFX2524/ GTFX3048



GVFX Series  
 Ventilated Grid-Tie  
 Bug Proof / Filtered / Screened  
 GVFX3524 / GVFX3648



Made in USA

## GRID TIE / UTILITY INTERACTIVE CAPABLE

Able to sell solar, wind or hydro power back to the utility grid - Reduce your utility bill by spinning your meter backwards!

## PROVIDES UTILITY BACK-UP POWER

Keeps your lights on when the power goes out as well as other loads like wells, TV, fridge, computer, garage door opener, alarm etc.,

## WORKS AUTOMATICALLY

Built in transfer switch automatically disconnects the house loads from the utility grid and powers them from the inverter during an outage.

## SAFE AND APPROVED

Listed to UL1741 standard as a non-islanding power inverter system for renewable energy applications.

## ULTRA CLEAN AC POWER

Smooth, true sinewave AC output waveform - not a course stepped sinewave or modified square wave.

## INTELLIGENT BATTERY CHARGER

Advanced charging algorithms provide fast recharging while increasing battery life up to 10 years.

## FIELD SERVICEABLE

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

## NETWORKED COMMUNICATIONS

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

## 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.

## FEATURES:

ZERO watts of AC power draw at night - automatic "silent" sell mode built in.

Daily energy production on par with battery-less grid-tie inverter systems

Modular configuration allows easy system expansion and flexible design with up to 10 inverters interconnected.

Integrated communication between the inverters and the charge controllers ensure proper operation

Automatically optimizes the conversion efficiency by matching the number of inverters to the amount of power being sold or used.



## COMPARISON OF OTHER GRID-TIE INVERTER

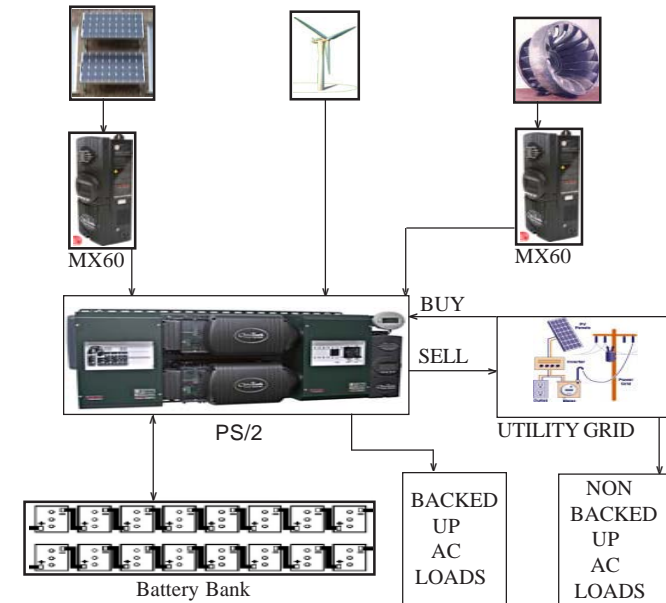
Feature	OutBack	Brand X	Brand S
Grid - Tie / Utility Interactive	YES	YES	YES
Utility Back-up Capable	YES	YES	NO
Built in Battery Charger	YES	YES	NO
Built in AC Transfer Switch	YES	YES	NO
Compact Size	YES	NO	YES
Network Communication	YES	NO	YES
Single, Split or 3 PH Back-up	YES	YES	NO
Tolerant of Partial Shading	YES	YES	NO
Zero Watts of AC Power Draw at Night	YES	NO	YES
Programmable AUX Output	YES	YES	NO
Generator Start System	YES	YES	NO
Bugproof / Tropicalized	YES	NO	YES
Sealed Construction	YES	NO	YES
Modular Construction	YES	NO	YES

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## DOMESTIC VERSION - 120VAC 60HZ

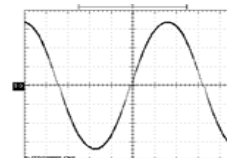
Inverter/Chargers Model No.	GTFX2524	GTFX3048	GVFX3524	GVFX3648
Continuous Power Rating 25° C	2500W	3000W	3500W	3600W
Nominal DC Input Voltage	24	48	24	48
Nominal AC Input Voltage/Frequency	120VAC / 60Hz			
Continuous AC RMS Output Current	21 amps	25 amps	29amps	30 amps
Idle Power (Sleep-<3watts)	18-20W	21-23W	18-20W	21-23W
Efficiency at 75% power & 25° C	91%	92%	91%	92%
Total Harmonic Distortion (typ/max)	2% / 5%			
Output Voltage Regulation	±2% TYP			
Surge Power Peak (1mSec) AC	70 amps	70 amps	70 amps	70 amps
Surge Power RMS (100mSec) AC	50 amps	50 amps	50 amps	50 amps
Overload (from 25° C start) 5 sec	4800W	4800W	4800W	5000W
Overload (from 25° C start) 30min	3200W	3200W	3200W	4000W
Automatic AC transfer Relay	60 amps AC			
AC Input Current (adjustable limits)	60 amps AC (Max)			
AC Input Voltage Range	108-132 VAC (Grid-Tie Mode)			
Frequency Range - AC Input	59.3-60.5 Hz (Grid-Tie Mode)			
DC Input Range	20-33V	40-66V	20-33V	40-66V
Recommended DC Breaker	OBDC-175	OBDC-100	OBDC-250	OBDC-175
Continuous Battery Charger amps DC	55	35	85	45
Shipping Weight	66 Lbs / 30kg		62 Lbs / 28kg	

## GTFX VERSIONS INCLUDE THE FX-TURBO STANDARD

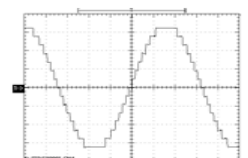


## WAVEFORMS

Typical OutBack  
GTFX or GVFX series  
AC output waveform



Typical Xantrex  
SW or SW+ series  
AC output waveform



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