

# FXR/VFXR E-Series

## 50Hz/230V Inverter/Chargers



SEALED (FXR)

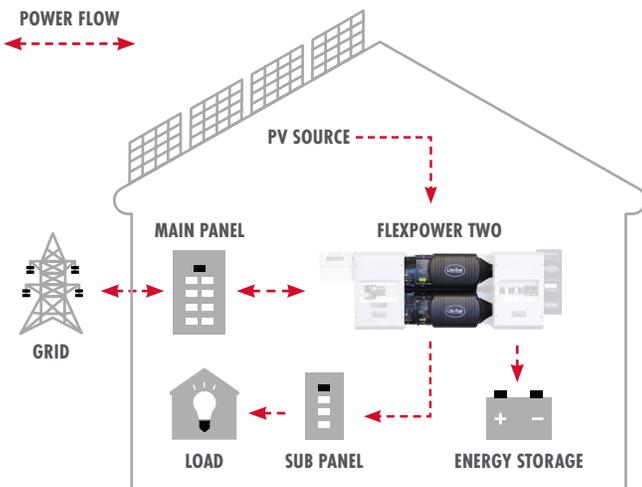


VENTED (VFXR)

- Modular, stackable: up to nine units can be combined for three-phase operation and ten in parallel, single-phase operation
- Seven different programmable operating modes, with generator assist
- GridZero operating mode minimizes grid dependence in areas where incentives are changing and utility sell-back is limited
- Sinewave output in 12V, 24V or 48V versions with a typical operating efficiency up to 93%
- Sealed Models: 2000 or 2300VA  
Vented Models: 2600 or 3000VA

**Capable of off-grid or grid-connected operation in a single model, the FXR inverter/chargers provide system designers with unprecedented flexibility and compatibility for nearly any power conversion scenario.**

FXR inverter/chargers can be paired with a MATE3s to add OPTICS RE to monitor and control system performance from any location. Available in power ranges from 2000 to 3000W, multiple units may be stacked and connected with other OutBack Power electronics for more seamless system integration and the ability to function in a wide variety of applications, and system sizes. Up to nine inverters can be combined in a three-phase system with the 12V, 24V or 48V models, and up to 30kW in a grid-tied 24V or 48V system. The exclusive modular system architecture means that increased power output is just an additional FXR inverter/charger away. Available in sealed or vented units with NEMA type 1 die-cast aluminum chassis designed to operate in the harshest environmental conditions such as high temperatures, humidity or corrosive salt air, the FXR inverter/chargers continue in OutBack's tradition of absolute dependability in mission-critical installations no matter how harsh or challenging the conditions.



Models:	Sealed			Vented		
	FXR2012E	FXR2024E	FXR2348E	VFXR2612E	VFXR3024E	VFXR3048E
Instantaneous Power (100ms)	4600VA	5750VA	5750VA	4600VA	5750VA	5750VA
Surge Power (5 sec)	4300VA	5175VA	5175VA	4300VA	5175VA	5175VA
Peak Power (30 min)	2500VA	3100VA	3100VA	3100VA	3300VA	3300VA
Continuous Power Rating (@ 25°C)	2000VA	2000VA	2300VA	2600VA	3000VA	3000VA
Nominal DC Input Voltage	12VDC	24VDC	48VDC	12VDC	24VDC	48VDC
AC Output Voltage (selectable)	230VAC (200 to 260VAC)	230VAC (200 to 260VAC)	230VAC (200 to 260VAC)	230VAC (200 to 260VAC)	230VAC (200 to 260VAC)	230VAC (200 to 260VAC)
AC Output Frequency (selectable)	50Hz (60Hz)	50Hz (60Hz)	50Hz (60Hz)	50Hz (60Hz)	50Hz (60Hz)	50Hz (60Hz)
Continuous AC Output Current (@ 25°C)	8.7AAC	8.7AAC	10AAC	11.3AAC	13AAC	13AAC
Idle Power	Full: ~34W Search: ~9W Off: ~3W			Full: ~34W Search: ~9W Off: ~3W		
Typical Efficiency	90%	92%	93%	90%	92%	93%
Total Harmonic Distortion	Typical: <2% Maximum: <5%			Typical: <2% Maximum: <5%		
Output Voltage Regulation	±2.5%	±2.5%	±2.5%	±2.5%	±2.5%	±2.5%
AC Input Voltage Range (MATE3s Adjustable)	170 to 290VAC	170 to 290VAC	170 to 290VAC	170 to 290VAC	170 to 290VAC	170 to 290VAC
AC Input Frequency Range	45 to 55Hz (54 to 66Hz)	45 to 55Hz (54 to 66Hz)	45 to 55Hz (54 to 66Hz)	45 to 55Hz (54 to 66Hz)	45 to 55Hz (54 to 66Hz)	45 to 55Hz (54 to 66Hz)
Grid-Interactive Voltage Range	—	208 to 252VAC	208 to 252VAC	—	208 to 252VAC	208 to 252VAC
Grid-Interactive Frequency Range	—	47 to 51Hz	47 to 51Hz	—	47 to 51Hz	47 to 51Hz
Maximum AC Input Current	30AAC	30AAC	30AAC	30AAC	30AAC	30AAC
Continuous Battery Charge Output	100ADC	55ADC	35ADC	120ADC	85ADC	45ADC
Maximum Battery Charging	AC: 7AAC DC: 100ADC Power: 1360W	AC: 7AAC DC: 55ADC Power: 1500W	AC: 7AAC DC: 35ADC Power: 1900W	AC: 9AAC DC: 120ADC Power: 1630W	AC: 10AAC DC: 85ADC Power: 2180W	AC: 10AAC DC: 45ADC Power: 2180W
Advanced Battery Charging	Flooded, gel, AGM, lithium-ion and flow chemistry			Flooded, gel, AGM, lithium-ion and flow chemistry		
DC Input Voltage Range	10.5 to 17VDC	21 to 34VDC	42 to 68VDC	10.5 to 17VDC	21 to 34VDC	42 to 68VDC
Accessory Ports	Remote temperature sensor (included), MATE3s and HUB communications			Remote temperature sensor (included), MATE3s and HUB communications		
Warranty	Standard 5 year, extended 10 year available			Standard 5 year, extended 10 year available		
Weight (lb/kg)	Unit: 62 / 29 Shipping: 67 / 30			Unit: 61 / 28 Shipping: 67 / 30		
Dimensions H × W × L (in/cm)	Unit: 13 × 8.25 × 16.25 / 21.75 × 13 × 22 Shipping: 21.75 × 13 × 22 / 55 × 33 × 56			Unit: 13 × 8.25 × 16.25 / 21.75 × 13 × 22 Shipping: 21.75 × 13 × 22 / 55 × 33 × 56		
Temperature Range	Rated: -20 to 50°C Operating: -40 to 60°C Storage: -40 to 60°C			Rated: -20 to 50°C Operating: -40 to 60°C Storage: -40 to 60°C		
Relative Humidity Rating	93%	93%	93%	93%	93%	93%
Listings/Certifications	IEC 62109, EN 61000-3, EN 61000-6	IEC 62109, EN 61000-3, EN 61000-6, AS4777.2/3	IEC 62109, EN 61000-3, EN 61000-6, AS4777.2/3	IEC 62109, EN 61000-3, EN 61000-6	IEC 62109, EN 61000-3, EN 61000-6, AS4777.2/3	IEC 62109, EN 61000-3, IEC 61000-4, EN 61000-6, IEC 60068-2, IEC 1547.1, AS4777.2/3
RoHS Compliant	Yes	Yes	Yes	Yes	Yes	Yes