1. ENGINEERED FOR RELIABILITY

, including Highly Accelerated Life Testing (HALT)

Durable units with die-cast aluminum chassis

Sealed versions available for humid or dusty climates

15 years of experience manufacturing and improving products for fault-intolerant, mission-critical applications

Standard 5 year warranty

2. DESIGNED FOR FLEXIBILITY

: up to nine units can be combined for three-phase operation and ten in parallel, single-phase operation

Seven different programmable operational modes, with generator assist

Advanced Battery Charging (ABC) programmability accommodates traditional and advanced chemistry batteries

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%

: 2000VA or 2300VA
: 2600VA or 3000VA

3. EASY-TO-INSTALL AND MAINTAIN

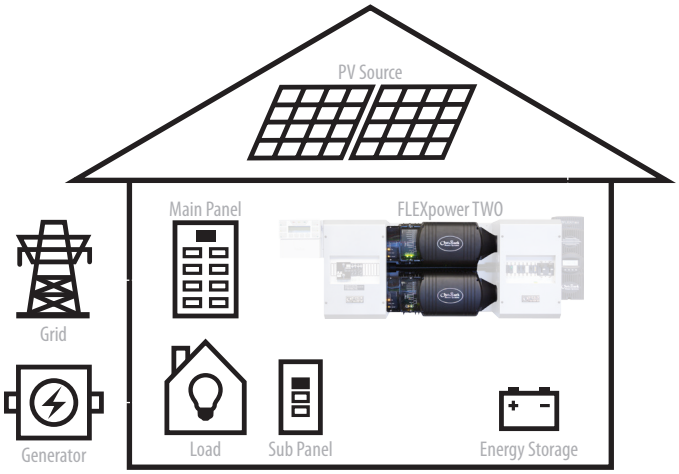
with smart programming wizards

Integrates both grid and generator with dual inputs

Complete balance-of-system components available

Field-serviceable modular design and global technical support

Monitor, command and control from any internet-connected device with OPTICS RE



OUTBACK POWER—MASTERS OF THE OFF-GRID. FIRST CHOICE FOR THE NEW GRID.

MAKE THE POWER

FLEXpower Integrated Systems
Inverter/Chargers & Charge Controllers

STORE THE ENERGY

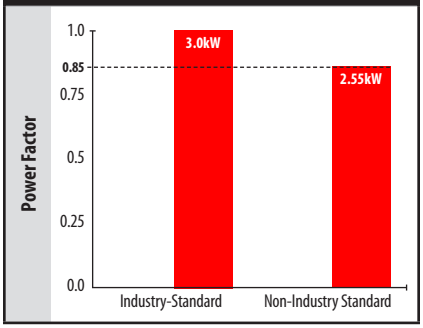
EnergyCell RE, GH, NC and OPzV Batteries
Battery Enclosures and Racking

MANAGE THE SYSTEM

OPTICS RE System Monitoring and Control
MATE3 System Display and Communications

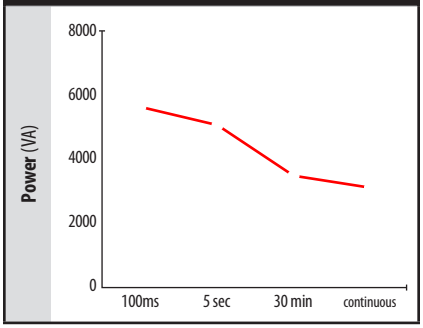
	Sealed			Vented		
	FXR2012E	**FXR2024E**	**FXR2348E**	**VFXR2612E**	**VFXR3024E**	**VFXR3048E**
Instantaneous Power (100ms)	4600VA	5750VA	5750VA	4600VA	5750VA	5750VA
Surge Power (5 sec)	4300VA	5175VA	5175VA	4300VA	5175VA	5175VA
Peak Power (30 min)	2500VA	3100VA	3100VA	3100VA	3300VA	3300VA
Continuous 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 (200-260VAC)	230VAC (200-260VAC)	230VAC (200-260VAC)	230VAC (200-260VAC)	230VAC (200-260VAC)	230VAC (200-260VAC)
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 (MATE3 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), MATE3 and HUB communications			Remote temperature sensor (included), MATE3 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 x W x L (in/cm)	**Unit**: 13 x 8.25 x 16.25 / 21.75 x 13 x 22 **Shipping**: 21.75 x 13 x 22 / 55 x 33 x 56			**Unit**: 13 x 8.25 x 16.25 / 21.75 x 13 x 22 **Shipping**: 21.75 x 13 x 22 / 55 x 33 x 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

VFXR3048E Power Factor Chart



Inverters that specify power in VA but do not use the unity standard Power Factor (PF) **could have misleading power specifications.** Volt-Amps (VA) is a total inverter output, while Watts (W) represent the power consumed by the electrical loads. PF, which varies by types of loads, is the ratio of W to VA, and the difference between the two is power in the circuit that does no useful work. At 1.0PF (unity), all power is used. This is the industry-standard used by OutBack Power.

VFXR3048E Power Rating Chart



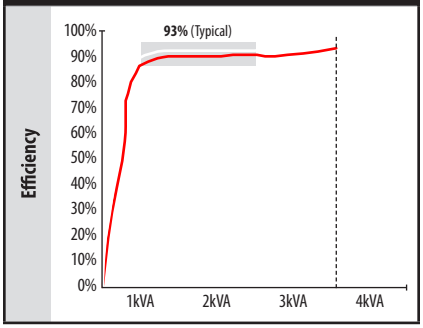
Most stringent, massive load start **VFXR3048E**: 5750VA

Less stringent load start **VFXR3048E**: 5175VA

Frequent "heavy duty" load requirements **VFXR3048E**: 3300VA

Sustained "real world" load requirements **VFXR3048E**: 3000VA

VFXR3048E Efficiency Rating Chart



SELLING

Real world efficiency with variable loads **VFXR3048E**: 93%