



SINEWAVE INVERTER / CHARGER

SERIES FXR / VFXR

One Unit – 3 functions: Charging, UPS, AC-Power

The latest, most advanced features on the industry's most trusted and proven platform that's the essence of the new FXR Series of Grid/Hybrid inverterchargers.

Capable of off-grid or grid-connected operation in a single model.

FXR inverterchargers can be paired with a MATE3s to add OPTICS RE to monitor and control system performance from any location.

Multiple units may be stacked and connected with other OB 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 3-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 invertercharger away.



Pure
Sinewave



Charger



Transfer
switch



Stand-by
Mode



Remote
control port



Extended
temperature
range



Multiple
electronic
protection



Waterproof
(FXR - Version)



Programmable
(optional)



Digital display
(optional)

APPLICATIONS

VFXR (Vented)

- Marine & other rugged environments
- Electric Utilities and Substations
- Base Station Power
- Industrial Controls
- Emergency Power Backup (UPS)

FXR (Sealed)

- Tropical climates
- Demanding environments

FEATURES

- Ruggedized / Tropicalized
- FXR Version waterproof IP62
- Bug-proof construction, all openings on VFXR unit are $\lt; \varnothing 0.8\text{mm}$ to keep out dirt
- Environmentally Tolerant
- Built-in intelligent Battery Charging System up to 120 A continuous charging current
- 5-Stage, intelligent charger (bulk, absorb, float, silent, manual EQ)
- Built-in automatic AC-Transferswitch (max. switch capacity 30A)
- Programmable AUX output
- Programmable for seven different modes with generator assist
- Smooth, true sinewave AC output
- Inverterchargers can be stacked from 3000VA up to 30000VA of continuous AC power
- 3-Phase configuration possible
- Remote control optional available
- All relevant parameters programmable and stored in a non volatile memory

SPECIFICATIONS

Inverter / Charger Model		FXR2012E	FXR2024E	FXR2348E	VFXR2612E	VFXR3024E	VFXR3048E
Electrical Specifications Inverter							
Nominal DC-Input Voltage	VDC	12	24	48	24	24	48
DC-Input Range (adjustable low battery cut-out)	VDC	10.5 - 17	21 - 34	42 - 68	10.5 - 17	21 - 34	42 - 68
AC-Output Voltage (selectable)	VAC	230 (200-260)					
AC-Output Frequency	Hz	50Hz					
Output Voltage Regulation	%	+/- 2.5					
Continuous Power Rating at 25° C	VA	2000	2000	2300	2600	3000	3000
Peak Power (from 25° C start) 30min	VA	2500	3100	3100	3100	3300	3300
Surge Power (from 25° C start) 5 sec	VA	4300	5175	5175	4300	5175	5175
Instantaneous Power (from 25° C start) 100ms	VA	4600	5750	5750	4600	5750	5750
Continuous AC-Output	AAC RMS	8.7	8.7	10	11.3	13	13
Efficiency at 75% power & 25° C	%	90	92	93	90	92	93
Total Harmonic Distortion (typ/max)	%	< 2 / < 5					
Idle Power Full	VA	~ 34					
Search		~ 9					
Off		~ 3					
Electrical Specifications Charger							
AC-Input Voltage Range	VAC	170 - 290					
AC-Input Frequency Range	Hz	45 - 55					
AC-Input Current max (adjustable limits)	AAC	30					
Continuous Battery Charge Current (adjustable)	ADC	100	55	35	120	85	45
Charge Characteristics		5-stage (bulk, absorb, float, silent, manual EQ)					
Advanced Battery Charging		Flooded, gel, AGM, lithium-ion and flow chemistry					
Battery temperature compensation	VDC	0.1 / °C. Remote temperature sensor (included)					
Specifications Transferswitch							
Current capacity	AAC	30					
Other Specifications							
Cooling		By conduction / convection				Vented	
Operating temperature range	°C	- 40 to + 60 derating 20VA for each degree C° above 25° C ambient temperature					
Relative Humidity Rating	%	93					
Conformal coating		•	•	•	•	•	•
Basic ruggedizing		•	•	•	•	•	•
Sealed		•	•	•			
Connectons		DC: Threaded stud M8 AC: Terminal Block max. 6 mm2 or #10 AWG					
Dimensons (LxWxH)	cm	41.5 x 21 x 33.5				44 x 21 x 30.5	
Weight	Kg	29				28	
Shipping weight	Kg	30				30	
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 EN 61000-6 AS4777.2/3
RoHS Compliant		Yes					

