RIPEENERGY
The Power Conversion Company

SINEWAVE INVERTER / CHARGER

SERIES GFX

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

The true sinewave GFX Series Inverter/ Charger is a competitive power solution designed for applications with lower power demands. Incorporating a DC to AC sinewave inverter, battery charger and AC transfer relay housed within a die-cast aluminum chassis, the Series GFX Inverter/Chargers give you the ability to sell solar, wind or hydro power back to the utility grid while providing instantaneous back-up power in the event of a utility outage.
The GFX Series built in transfer relay automatically disconnects your loads from the utility grid and powers them from the inverter in the event of an outage, allowing you to continue using your solar and battery backup power, unlike traditional grid-tie systems. For areas that frequently experience power instability such as surges, spikes or brownouts, or where standard inverters have trouble syncing to the utility grid, the GFX International Series grid reconnect timers have been set to reduce overall sell-back downtime and improve system functionality.
Intelligent multi-stage battery charging prolongs the life of your batteries and built-in networked communications allow for simultaneous communications of up to ten OB components within the system. The exclusive modular system architecture means that increased power output is just an additional inverter/ charger away. Our GFX Series uses a sealed chassis that can operate in the harshest environmental conditions such as high humidity and corrosive salt air.

Pure Sinewave | Charger | Transfer switch | Stand-by Mode | Remote control port | Extended temperature range | Multiple electronic protection

Waterproof | Programmable (optional) | Digital display (optional)

APPLICATIONS

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

FEATURES

- Ruggedized / Tropicalized
- Waterproof IP62
- Environmentally Tolerant
- Built-in intelligent Battery Charging System up to 70 A continuous charging current
- 3-Stage, intelligent charger (bulk, absorb, float)
- 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
- Inverter/chargers can be stacked from 1300VA up to 14000VA 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		GFX1312E	GFX1424E	GFX1448E
Electrical Specifications Inverter				
Nominal DC-Input Voltage	VDC	12	24	48
DC-Input Range (adjustable low battery cut-out)	VDC	10.5 - 17	21 - 34	42 - 68
AC-Output Voltage	VAC	230		
AC-Output Frequency	Hz	50Hz		
Output Voltage Regulation	%	+/- 2		
Continuous Power Rating at 25° C	VA	1300	1400	1400
Peak Power (from 25° C start) 30min	VA	1800	2000	2000
Surge Power (from 25° C start) 5 sec	VA	2900	2900	2900
Instantaneous Power (from 25° C start) 100ms	VA	4600	4600	4600
Continuous AC-Output	AAC RMS	5.65	6.09	6.09
Efficiency at 25° C	%	90	92	93
Total Harmonic Distortion (typ/max)	%	< 2 / < 5		
Idle Power Full Search Off	VA	~ 18 ~ 6 ~ 3		
Electrical Specifications Charger				
AC-Input Voltage Range (Adjustable)	VAC	140 - 280		
AC-Input Frequency Range	Hz	45 - 55		
AC-Input Current max (adjustable limits)	AAC	30		
Continuous Battery Charge Current (adjustable)	ADC	70	40	20
Charge Characteristics		3-stage (bulk, absorb, float)		
Specifications Transferswitch				
Current capacity	AAC	30		
Other Specifications				
Cooling		By conduction / convection		
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		
Weight	Kg	23		
Shipping weight	Kg	26		
Listings/Certifications		EN 60950-2 EN 61000-3 EN 61000-6	EN 60950-2 EN 61000-3 EN 61000-6	EN 60950-2 EN 61000-3 EN 61000-6
RoHS Compliant		Yes		

RIPEnergy AG
Wägitalstrasse 24
CH-8854 Siebnen
Switzerland

Phone +41 43 818 53 85
www.ripenergy.ch