

FREEDOM X SINE WAVE INVERTER

xantrex™
Smart choice for power™

**Robust. Durable. Economical.
Built for HD Trucks.**

Available in:

1200 W



Engineered specifically to meet the needs of heavy duty trucks, the Freedom X offers a perfect blend of performance and cost. The Freedom X is ideal for installation in all types of commercial vehicles.

The rugged, industrial design of the Freedom X ensures its optimum performance in all conditions. Quick connect terminals at AC input & output and pre-wired pigtail cables enable fast and easy installation on the assembly line. Conformal-coated circuit boards and heavy duty metal casing make the Freedom X ideal for mobile applications. It also features true sine wave output, 2X continuous power surge rating, built-in transfer switch and low battery voltage shutdown among other features.



Easy access AC & DC wiring compartment for quick installation



Displays inverter status and battery status information on the screen.

Product Features

- » **Power for Most Appliances** - The Freedom X inverter provides up to 1200 watts of continuous utility grade, sine wave power. It is designed to handle loads such as CPAP machines, microwave ovens, TVs, DVD/Blu-ray players and power tools. In addition, the Freedom X's high-surge capability lets you handle many hard-to-start loads, including full size residential refrigerators.
- » **Back-up Capability with exceptionally fast transfer time just like the UPS** - If incoming shore power is interrupted by external events like brownouts, the Freedom X automatically becomes an independent power source that supplies utility grade AC power to your loads when installed with DC battery.
- » **Minimum Battery Drain** - The Freedom X's built-in protection features safeguard your batteries (from unnecessary drain) such as the low battery voltage alarm and shutdown and protect equipment such as a configurable AC transfer speed.
- » **Overload and over temperature alarm and shutdown.**

Applications:



Recreational Vehicles



Heavy Duty Trucks



Work Vehicles



ETL listed to CSA Standard C22.2 No. 107.1 and UL 458* with Marine supplement

*For marine supplement compliance drip shield in specific mounting orientation is required. See installation guide



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Electrical specifications – inverter	X 1200
Output power (continuous)	1200 W
Surge rating	2400 W
Output voltage range	110 - 125 Va
Output frequency regulation	50 / 60 Hz (user configurable)
Output wave form	True sine wave
Efficiency (full load)	≥ 86%
Peak efficiency	≥ 91%
No-load input power (producing output voltage)	≤ 10 W
Off mode current draw (display off)	< 4 mA
AC input operating voltage range	95 – 130 Vac
AC transfer relay	30 A
DC Input operating voltage range	10.5 - 16.5 Vdc
Transfer time	10 - 20 ms
Battery voltage (nominal)	12 Vdc
Low battery cut-out	Adjustable from 10.5 to 12.1 Vdc
AC receptacles	15 A breaker supplied. Optional customer supplied GFCI

General specifications	
Operating temperature range	-4°F - 122°F (-20°C - 50°C)
Storage temperature range	-40°F - 158°F (-40°C - 70°C)
Unit weight	10.4 lb (4.7 kg)
Unit dimensions (H x W x L)	3.5 x 10.4 x 14.8" (91 x 263 x 376 mm)
Warranty	Two year
Part number	806-1212

Regulatory and environmental compliance	
ETL listed to CSA Standard C22.2 No. 107.1, UL458 with marine supplement**	
FCC Part 15, Class B	

Specifications are subject to change without notice. *Qty: 2pcs inside brown mastercarton. **When used with drip shield, part #808-1050.



"Highland Ridge is a unique company in the industry in that we scrutinize every part and process to look for innovative ways to improve the RV experience. Based on customer feedback, we knew we had an opportunity to improve the performance of our inverter system, namely battery life, when running the very popular 110 (volt) residential refrigerators. Our results, plus independent testing, were eye opening. The choice became crystal clear. We chose the Freedom X inverter because it far outperformed other inverters in every way. In the end, we know the Xantrex Freedom X will provide a better experience for our customers."

Ben Johnson

National sales and product development manager at Highland Ridge about the Freedom X 1200.