

# FREEDOM X SINE WAVE INVERTER

**xantrex™**  
Smart choice for power™



**Robust. Durable. Flexible.**

Available in:

1000W

2000W

3000W



The Freedom X inverter offers premium performance in a lightweight compact package. It cranks out full output from -4°F - 104°F for operation in all climate temperatures. The extended surge rating of the Freedom X makes it ideal to start difficult loads including fridge and microwave. The quick connect terminals at AC IN/OUT make installation a breeze.



Easy access AC & DC wiring compartment for quick installation



Hardwire or plug directly into the optional 20A GFCI receptacle



View AC & battery current, % status bar for inverter output on the onboard display

## Product Features

- » **Extended Surge Rating**  
Surges to 2X continuous power for 2 seconds for motor loads
- » **True Sine Wave AC Power**  
For operation of sensitive and motor loads
- » **Ignition Control**  
Feature to turn inverter on/off via a 12 VDC signal and to minimize battery drain by switching the inverter off when the ignition key is turned off
- » **Wide 10-18 VDC Input Range**  
Ensures inverter operation on high voltage alternators found on many new vehicle chassis
- » **Built-in 30A AC Transfer Relay**  
Senses when outside AC Power is present and transfers the load from the inverter to the source of incoming power (shore or generator).
- » **Quick Installation**  
Huge wiring bay for easy access and quick connect AC in/out terminals for fast & easy wiring

## Applications:



Recreational Vehicles



Heavy Duty Trucks



Work Vehicles



Specialty Vehicles



Marine



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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# FREEDOM X SINE WAVE

## INVERTER

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Electrical Specifications	FREEDOM X1000	FREEDOM X2000
AC Output Operating Voltage Options	120, 110, 108 VAC	120, 110, 108 VAC
Continuous Output Power	Continuous Power 1000 W @40°C True sine wave	Continuous Power 2000 W @40°C True sine wave
Continuous AC Output Current	8.4 A	16.7 A
Surge Power	2000 W	4000 W
Frequency (Configurable)	60 (or 50) Hz	60 (or 50) Hz
Peak Efficiency	91%	91%
Full load Efficiency	≥ 87%	≥ 87.5%
Operating Input AC Pass-Through Voltage Range	85-140 VAC	85-140 VAC

General Specifications	FREEDOM X1000	FREEDOM X2000
Operating Temperature Range	-4 to 140 °F (-20 to 60 °C), with output derated above 104 °F (40 °C)	-4 to 140 °F (-20 to 60 °C), with output derated above 104 °F (40 °C)
Storage Temperature Range	-40 to 158 °F (-40 to 70 °C)	-40 to 158 °F (-40 to 70 °C)
Operating Humidity Range	5 to 95% RH, non-condensing	5 to 95% RH, non-condensing
Transfer Relay AC Current Rating	30A	30A
DC Input Operating voltage range	LBCO voltage - 18.0 VDC	LBCO voltage - 18.0 VDC
DC Input Max Non-Operating Voltage	24.0 VDC	24.0 VDC
DC Input Nominal Voltage (Inverting)	12.0 VDC	12.0 VDC
DC Nominal Current at Full Load	100 ADC	192 ADC
Part Number	817-1000	817-2000
L x W x H (Excluding Mount Flanges)	13.4" (340mm) x 9.1" (232mm) x 3.7" (95mm)	14.6" (370mm) x 10.8" (275mm) x 3.9" (100mm)
Net Weight (Including GFCI, sold separately)	11.2lbs (5.1kgs)	15.7lbs (7.1kgs)

Accessories	FREEDOM X1000	FREEDOM X2000
Remote Panel (with 25' Cable)	808-0817-01	808-0817-01
GFCI Option	808-9817	808-9817
Remote Panel Cable	31-6257-00 (25 ft)	31-6257-00 (25 ft)
	31-6262-00 (50 ft)	31-6262-00 (50 ft)

Regulatory Approvals	FREEDOM X1000	FREEDOM X2000
Safety	ETL listed to CSA 107.1 UL458 and UL458 Marine Supplement (drip shield with product number 808-1050 required) ABYC E-11, A-31, A-32	
EMC	CFR 47, FCC, PART 15, Subpart B, Class B and CAN ICES-3 (B) / NMB-3 (B)	

Actual product may differ slightly in appearance to images shown. Specifications subject to change.