

# xantrex™

## FREEDOM X INVERTER DATASHEET



AVAILABLE IN:  
12V

**1000W**

**2000W**

**3000W**

### ROBUST. DURABLE. FLEXIBLE.

The FREEDOM X inverter offers premium performance in a lightweight compact package. It cranks out 100% of rated output from -4°F (-20°C) – 104°F (40°C) and operates up to 140°F (60°C) 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.



Exceptional full rated performance in all climate temperatures



True sine wave output for sensitive and motor loads



Ignition control feature turns inverter on/off via 12Vdc signal



View, control and configure via Bluetooth app<sup>1</sup> on iOS and Android

#### APPLICATIONS:



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.

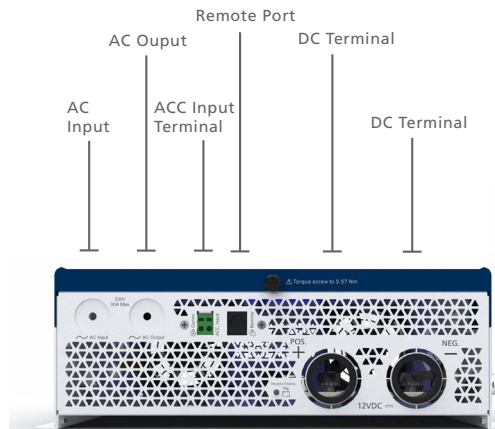
**2 YEAR WARRANTY**

[www.xantrex.com](http://www.xantrex.com)  
CUSTOMER CARE: 1.800.670.0707

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<sup>1</sup>requires FREEDOM X Bluetooth Remote Panel, part #808-0817-02



TOP VIEW



SIDE VIEW



SIDE VIEW

## INVERTER FEATURES

### Extended Surge Rating

- Surges to 2X continuous power for <5 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

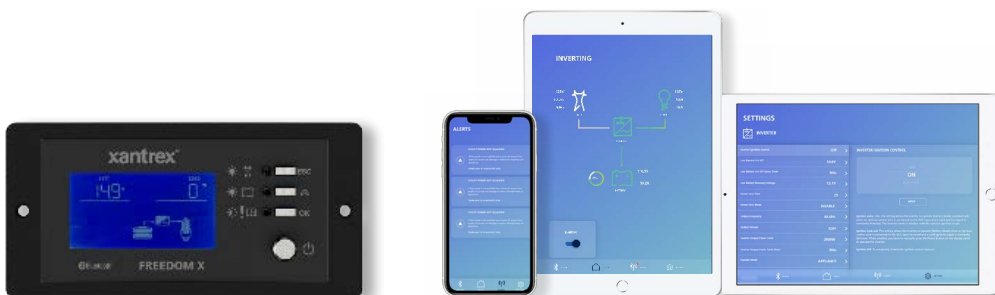
### Built-in 30A AC Transfer Relay

- Senses when outside AC Power is present and transfers the load from the inverter to the source of incoming power

### Built-in GFCI Models

- Quick installation plus added safety and compliance.

## FREEDOM X BLUETOOTH REMOTE PANEL + FXC CONTROL MOBILE APP

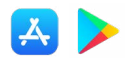


FREEDOM X BLUETOOTH REMOTE PANEL  
(808-0817-02)

- Easily monitor system status
- Monitor alerts
- Change settings conveniently
- Connect via bluetooth
- Available on Android and iOS



DOWNLOAD ON



CONNECT WITH Bluetooth

## ELECTRICAL SPECS - INVERTER

|                                     | FREEDOM X 1000  | FREEDOM X 2000  | FREEDOM X 3000  |
|-------------------------------------|---|---|---|
| AC Output Operating Voltage Options | 120, 110, 108 VAC                                     | 120, 110, 108 VAC                                     | 120, 110, 108 VAC                                     |
| Continuous Output Power             | Continuous Power 1000 W @40°C<br>True sine wave (TSW) | Continuous Power 2000 W @40°C<br>True sine wave (TSW) | Continuous Power 3000 W @40°C<br>True sine wave (TSW) |
| Continuous AC Output Current        | 8.4 A   | 16.7 A  | 25 A  |
| Surge Power (5 sec)                 | 2000 W  | 4000 W  | 6000 W  |
| Frequency (Configurable)            | 60 (or 50) Hz   | 60 (or 50) Hz   | 60 (or 50) Hz   |
| AC Operating Voltage Range          | 85-140 VAC  | 85-140 VAC  | 85-140 VAC  |
| AC Safe Non-Operating Voltage Range | Up to 240 VAC   | Up to 240 VAC   | Up to 240 VAC   |
| Operating voltage range             | LBCO voltage - 18.0 VDC                               | LBCO voltage - 18.0 VDC                               | LBCO voltage - 18.0 VDC                               |
| Max Non-Operating Voltage           | 25.2 VDC  | 25.2 VDC  | 25.2 VDC  |
| Nominal Voltage (inverting)         | 12.0 V  | 12.0 V  | 12.0 V  |
| Nominal Current at Full Load        | 100 ADC   | 192 ADC   | 288 ADC   |
| Peak Efficiency                     | 91%   | 91%   | 91%   |
| Full Load Efficiency                | ≥ 87.5%   | ≥ 87.5%   | ≥ 85%   |

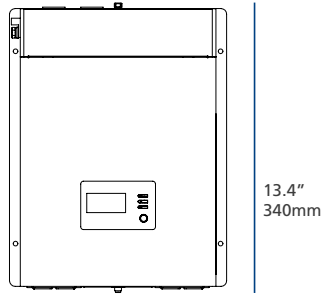
## GENERAL SPECS

|                                  | FREEDOM X 1000  | FREEDOM X 2000  | FREEDOM X 3000  |
|----------------------------------|---|---|---|
| Operating Temperature Range      | -4 to 140°F (-20 to 60°C), with<br>output derated above 104 °F<br>(40 °C) | -4 to 140°F (-20 to 60°C), with<br>output derated above 104 °F<br>(40 °C) | -4 to 140°F (-20 to 60°C), with<br>output derated above 104 °F<br>(40 °C) |
| Storage Temperature Range        | -40 to 158°F (-40 to 70°C)  | -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   | 5 to 95% RH, non-condensing   |
| Transfer Relay AC Current Rating | 30A   | 30A   | 30A   |
| Part Number (Hardwire)           | 817-1000  | 817-2000  | 817-3000  |
| Part Number (GFCI Built-in)      | 817-1000-11   | 817-2000-11   | 817-3000-11   |
| L x W x H (without flanges)      | 13.4" x 9.1" x 3.7"<br>(340mm x 232mm x 95mm)                             | 14.6" x 10.8" x 3.9"<br>(370mm x 275mm x 100mm)                           | 15.4" x 10.8" x 4.0"<br>(390mm x 275mm x 102mm)                           |
| L x W x H (with flanges)         | 13.4" x 10.3" x 3.7"<br>(340mm x 262mm x 95mm)                            | 14.6" x 12" x 3.9"<br>(370mm x 305mm x 100mm)                             | 15.4" x 12" x 4.0"<br>(390mm x 305mm x 102mm)                             |
| Net Weight (without GFCI)        | 11.5 lbs (5.2kgs)   | 14.7 lbs (6.7kgs)   | 16.5 lbs (7.5kgs)   |

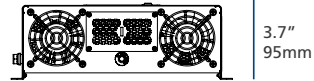
## REGULATORY APPROVALS

| FREEDOM X 1000, 2000, 3000 |  |
|----------------------------|--|
| 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 |
| EMC                        | CFR 47, FCC, PART 15, Subpart B, Class B and CAN ICES-3 (B) / NMB-3 (B)  |

### FREEDOM X 1000 DIMENSIONS

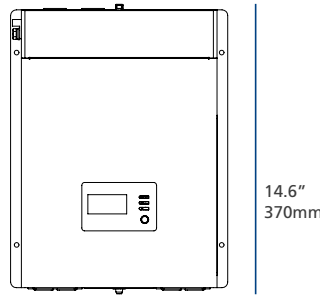


10.3"  
262mm

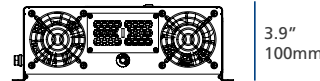


3.7"  
95mm

### FREEDOM X 2000 DIMENSIONS

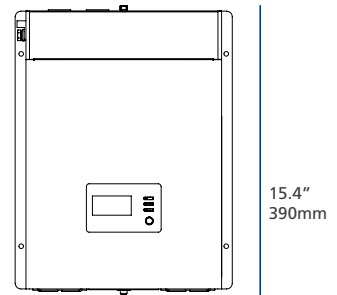


12"  
305mm

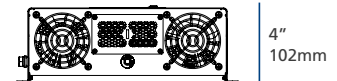


3.9"  
100mm

### FREEDOM X 3000 DIMENSIONS



12"  
305mm



4"  
102mm

### ACCESSORIES

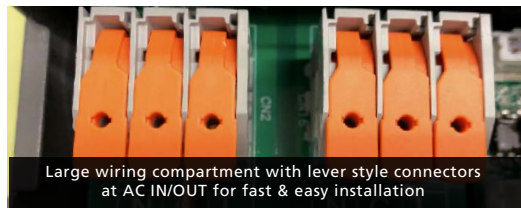
| Mfg Part #                                 | Description   |
|--|---|
| 808-0817-01                                | FREEDOM X/XC Remote Panel (with 25' (7.62m) network cable)        |
| 808-0817-02                                | FREEDOM X Bluetooth Remote Panel (with 25' (7.62m) network cable) |
| 31-6257-00 (7.62m),<br>31-6262-00 (15.24m) | Remote Panel Cable  |
| 808-0232-01                                | Battery Temperature Sensor (BTS)                                  |
| 808-9817                                   | GFCI Option   |
| 808-1050                                   | Drip Shield (for marine use)                                      |



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



Hardwire or plug directly into the optional 20A GFCI receptacle



Large wiring compartment with lever style connectors at AC IN/OUT for fast & easy installation

ACC input terminal for connecting ignition control wiring. Remote port allows you to connect an accessory remote control or display device.



## CONTACT

### CUSTOMER SERVICE

1.800.670.0707  
customerservice@xantrex.com  
Hours of operation:  
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