

# xantrex™

## FREEDOM XC PRO MARINE DATASHEET



AVAILABLE IN, 12VDC:

**2000W/100A**

**3000W/150A**

### SEAMLESS INTEGRATION WITH MICRO-C NMEA 2000 CONNECTOR

The Freedom XC PRO Marine inverter/charger, supporting CANbus NMEA 2000 protocol, is the most versatile and flexible AC power solution in the market today. It supports seamless integration with third party monitoring and control systems. It also features a 100 amp (2000W model) / 150 amp (3000W model) battery charger and offers all of the configurable features of the Freedom XC series inverter/charger in a compact, light weight package. It cranks out full output in invert or charge mode from -4°F (-20°C) - 104°F (40°C) for operation in all climate temperatures. The extended surge rating enables compressor loads such as an A/C or a fridge to start reliably.



Built-in Micro-C NMEA 2000 connector



Designed to charge lithium ion batteries



Highly configurable for a variety of applications



Exceptional 5 second power surge for motor loads



Ability to charge dead batteries down to 0V



Built-in 50A transfer relay\*

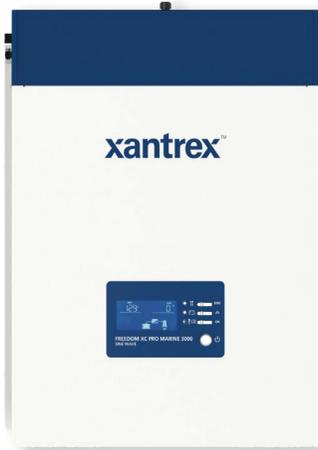
#### APPLICATIONS:



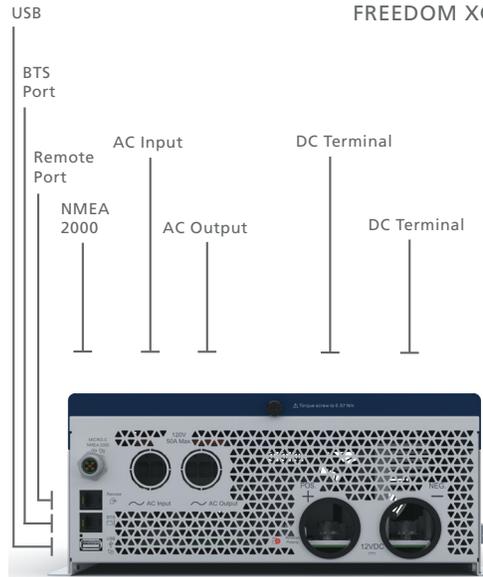
**2 YEAR  
WARRANTY**

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

Copyright © 2020 Xantrex LLC. All Rights Reserved. All trademarks are owned by Xantrex LLC.  
\*3000W model



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

### Programmable AC Under-Voltage (85-110VAC) Shutdown

- Feature ideal to operate under weak shore power or generator input

### Built in 50A 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 CHARGER FEATURES

### Power Factor Corrected Multi-Stage

- Utilizes less shorepower when charging batteries. This frees up more usable AC power for running electrical devices and appliances and reduces the likelihood of tripping shorepower breakers

### Programmable

- Configurable 3 stage temperature compensated battery charge algorithm for optimal charging of almost any battery type up to 18V

### Battery Equalization

- Maximizes flooded battery life

### Dead Battery Charging Down to 0 Vdc

### Power Share

- Prioritizes AC loads by reducing the charge current and maintaining the total input current to less than the breaker setting

### Lithium-Ion/Battery Support

- BMS Required

## 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 XC PRO Marine 2000                         | FREEDOM XC PRO Marine 3000                         |
|-------------------------------------|--|--|
| AC Output Operating Voltage Options | 120, 110, 108 Vac                                  | 120, 110, 108 Vac                                  |
| Continuous Output Power             | Continuous Power 2000 W @40°C True sine wave (TSW) | Continuous Power 3000 W @40°C True sine wave (TSW) |
| Continuous AC Output Current        | 16.7 A   | 25 A   |
| Surge Power                         | 4000 W ( $\leq 5$ sec)                             | 6000 W ( $\leq 5$ sec)                             |
| Frequency (Configurable)            | 60 (or 50) Hz                                      | 60 (or 50) Hz                                      |
| Peak Efficiency                     | 91%  | 91%  |
| Full Load Efficiency                | $\geq 86\%$  | $\geq 84\%$  |
| DC Input Operating voltage range    | 10.1 - 18.0 VDC                                    | 10.1 - 18.0 VDC                                    |
| DC Input Max Non-Operating Voltage  | 25.2 Vdc   | 25.2 Vdc   |
| DC Nominal Current at Full Load     | 192 Adc  | 304 Adc  |

## ELECTRICAL SPECS - BATTERY CHARGER

|   | FREEDOM XC PRO Marine 2000     | FREEDOM XC PRO Marine 3000     |
|---|--------------------------------|--------------------------------|
| Min Battery Voltage for Charging              | 0.0 Vdc                        | 0.0 Vdc                        |
| Max DC Output Voltage                         | 18.0 Vdc (custom battery type) | 18.0 Vdc (custom battery type) |
| Selectable DC Output Current                  | User Selectable: 5 - 100 A     | User Selectable: 5 - 150 A     |
| Full Load Max AC Input Current                | 24 Arms                        | 25 Arms                        |
| Max DC Charge Current (selectable down to 5A) | 100A                           | 150A                           |
| Operating Input AC Pass-Through Voltage Range | 85-140 Vac                     | 85-140 Vac                     |
| Safe Non-Operating Input AC Voltage Range     | Up to 240 Vac RMS              | Up to 240 Vac RMS              |
| Power Factor at Full Charge Rate              | > 98%                          | > 98%                          |

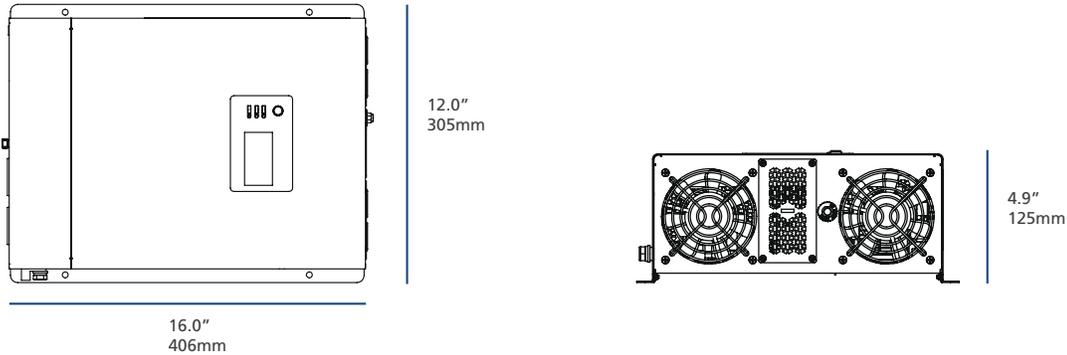
## GENERAL SPECS

|   | FREEDOM XC PRO Marine 2000   | FREEDOM XC PRO Marine 3000   |
|---|--|--|
| 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                      | 30 A surge, 24 A continuous  | 50 A surge, 40 A continuous  |
| DC Input/Output Nominal Voltage (inverting/ Charging) | 12.0 Vdc   | 12.0 Vdc   |
| Part Number   | 818-2015   | 818-3015   |
| L x W x H (without flanges)                           | 15.4"(390 mm) x 10.8"(275 mm) x 4.9"(125 mm)                         | 15.4"(390 mm) x 10.8"(275 mm) x 4.9"(125 mm)                         |
| L x W x H (with flanges)                              | 16.0"(406 mm) x 12.0"(305 mm) x 4.9"(125 mm)                         | 16.0"(406 mm) x 12.0"(305 mm) x 4.9"(125 mm)                         |
| Net Weight  | 17.1 lbs (7.76 kgs)  | 18.6 lbs (8.4 kgs)   |

## REGULATORY APPROVALS

|        | FREEDOM XC PRO Marine 2000, FREEDOM XC PRO Marine 3000  |
|--------|---|
| Safety | NRTL 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 XC PRO MARINE DIMENSIONS**

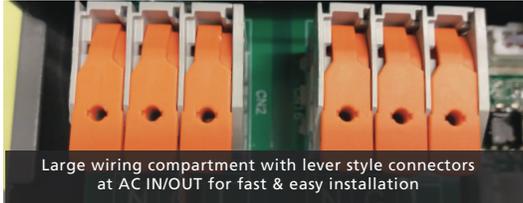


**ACCESSORIES**

| Mfg Part #                              | Description                                    |
|---|--|
| 808-0817-01                             | Remote Panel with 25ft network cable           |
| 808-0817-02                             | Bluetooth Remote Panel with 25ft network cable |
| 808-9817                                | GFCI Option                                    |
| 31-6257-00 (25ft),<br>31-6262-00 (50ft) | Remote Panel Cable                             |
| 808-0840                                | Communication Card NMEA 2000 Harness           |
| 808-0232-01                             | Battery Temperature Sensor (BTS)               |
| 808-1050                                | Drip Shield (for marine use)                   |



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



## CONTACT

**CUSTOMER SERVICE**  
 1.800.670.0707  
 customerservice@xantrex.com  
**Hours of operation:**  
 6:30am - 4:30pm PST, Monday to Friday

facebook.com/Xantrex  
 @Xantrex  
 youtube.com/XantrexTechnology

**LEARN MORE ON:**  
[www.xantrex.com](http://www.xantrex.com)