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[1] on iOS and Android

APPLICATIONS:

H.A.L.T.

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
CUSTOMER CARE: 1.800.670.0707

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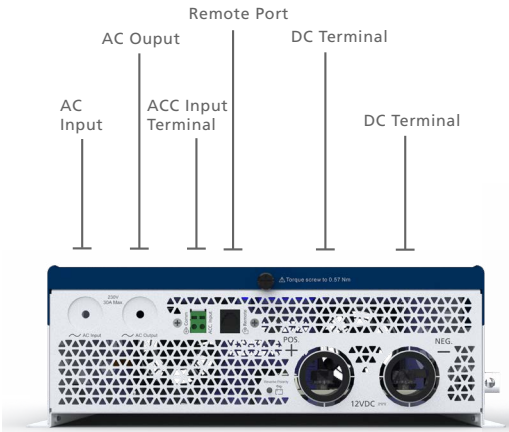
[1]requires FREEDOM X Bluetooth Remote Panel, part #808-0817-02

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

xantrex CONTROL

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 True sine wave (TSW)	Continuous Power 2000 W @40°C True sine wave (TSW)	Continuous Power 3000 W @40°C 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%

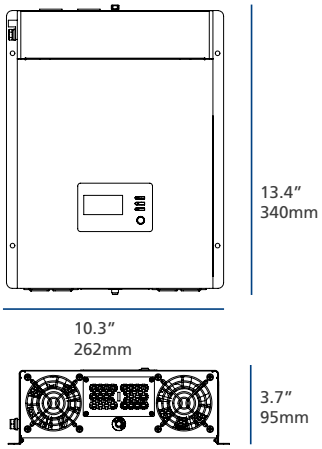
GENERAL SPECS

	FREEDOM X 1000	FREEDOM X 2000	FREEDOM X 3000
Operating Temperature Range	-4 to 140°F (-20 to 60°C), with output derated above 104 °F (40 °C)	-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)	-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" × 9.1" × 3.7" (340mm × 232mm × 95mm)	14.6" × 10.8" × 3.9" (370mm × 275mm × 100mm)	15.4" × 10.8" × 4.0" (390mm × 275mm × 102mm)
L x W x H (with flanges)	13.4" × 10.3" × 3.7" (340mm × 262mm × 95mm)	14.6" × 12" × 3.9" (370mm × 305mm × 100mm)	15.4" × 12" × 4.0" (390mm × 305mm × 102mm)
Net Weight (without GFCI)	11.5 lbs (5.2kgs)	14.7 lbs (6.7kgs)	16.5 lbs (7.5kgs)

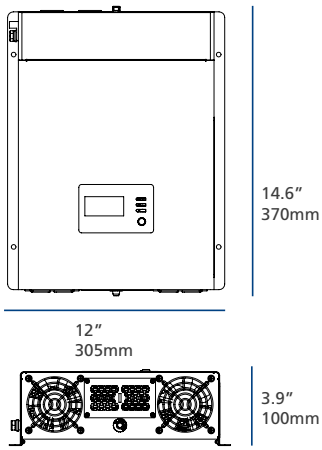
REGULATORY APPROVALS

	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)

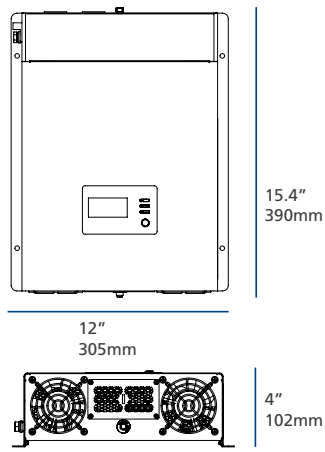
FREEDOM X 1000 DIMENSIONS



FREEDOM X 2000 DIMENSIONS



FREEDOM X 3000 DIMENSIONS

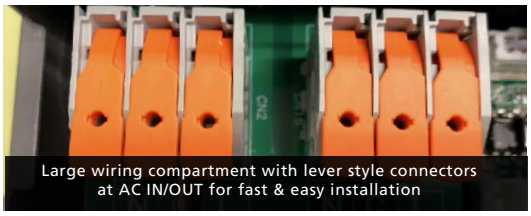


ACCESSORIES

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), 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:
6:30am - 4:30pm PST, Monday to Friday

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