

# FREEDOM SW 2000 Sine Wave Inverter/Charger

xantrex™



**NEW**

## PURE POWER. TRUE VALUE.

The Freedom SW 2000 inverter/charger features pure sine wave output and power factor corrected multi-stage charging to meet power needs of today's sensitive and sophisticated electronics. The Freedom SW 2000 offers premium performance and hard-to-match pricing in one package. It provides 2000 watts of continuous sine wave power to operate commonly used AC-powered electronics such as plasma television sets, microwaves, entertainment systems, computers, printers, power tools, mini refrigerator and much more. It packs a powerful 100 A charger and is available with an optional GFCI.

## Application

- ▶ Designed for a variety of mobile applications such as commercial, emergency and recreational vehicles, marine vessels, construction and military equipment.

## Product Features

- ▶ Pure sine wave output to operate sensitive electronics
- ▶ Built-in transfer switch automatically transfers between inverter power and incoming AC power
- ▶ Power factor corrected multi-stage charger for fast, efficient charging
- ▶ Temperature compensated charging for all climate conditions
- ▶ Wide operating temperature range: 32°F to 122°F (0°C to 50°C)
- ▶ Ignition lockout prevents unnecessary battery drain when the alternator is not providing power\*
- ▶ Adjustable low battery voltage cut-off
- ▶ Conformal coated circuit boards for humid environments
- ▶ On/off remote control panel with 25' cable included (Part# 808-9002)
- ▶ Easy to install and easy to use
- ▶ Optional GFCI (part# 808-9003)
- ▶ Meets CSA, UL458 (with marine supplement), ABYC and FCC Part 15, Class B requirements

\*When used with On/off remote panel

## Protection Features

- ▶ Battery over-voltage and under-voltage protection
- ▶ Over-temperature shutdown
- ▶ Automatic overload protection
- ▶ Short-circuit protection
- ▶ Ground-fault protection on units with GFCI option

## Also Available

- ▶ FREEDOM SW 3000 Sine Wave Inverter/Charger (Part# 815-3000)

**2000  
Watts**

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**FREEDOM SW 2000 Sine Wave Inverter/Charger****Electrical Specifications - Inverter**

Output power (continuous at 30°C)	2000 W
Surge rating (10 seconds)	4000 W
Peak Current	55 A
Output frequency	60 Hz ± 0.2 Hz
Output voltage	120 Vac
Output wave form	Pure sine wave
Optimal efficiency	90%
No-load power draw (inverting)	2 Adc
Input DC voltage range	11 - 15 Vdc
AC connections	Single
Low battery voltage cut-off	10.5 V, 11.8 V (selectable)

**Electrical Specifications - Charger**

Output current	100 A
Output voltage	12 Vdc
Output voltage range	10.0 - 15.5 Vdc
Charge control	3 stage with manual equalize
Charge temperature compensation	Battery temperature sensor (included)
Optimal Efficiency	> 85%
AC input power factor (full power)	> 0.98
Input current (for 100/150 A charging)	15.8 Aac
Input AC voltage	120 Vac
Input AC voltage range	95 - 140 Vac
Dead battery charge	> 8.5 Vdc

**General Specifications**

Compatible battery types	Flooded / gel / AGM /
Transfer relay rating	30 A, 120 Vac
Transfer time (AC to inverter and inverter to AC)	20 ms
Optimal operating temperature range	- 4°F to 122°F (- 20°C to 50°C)
Storage ambient temperature range	- 4°F to 167°F (- 20°C to 75°C)
Optimal operating temperature range	0°C to 50°C
Unit dimensions (H x W x L)	7.75 x 13.5 x 15.25" (19.7 x 34.3 x 38.7 cm)
Unit weight	27.5 kg (60.5 lbs)
Warranty	2 years
Master carton quantity	1
Master carton dimensions	11.8 x 17.1 x 20.5" (30 x 43.5 x 52.2 cm)
Master carton weight	30 kg (66 lbs)
Part Number	815-2000

**Accessories**

Freedom SW on/off remote panel	Part# 808-9002 - INCLUDED
Battery Temperature Sensor	Part# 808-0232-01 - INCLUDED
GFCI Option	Part# 808-9003 - SOLD SEPARATELY

**Regulatory & Environmental Compliance**

ETL certified to CSA 107.1, UL458 with marine supplement\*\*, FCC Class B