

# FREEDOM SW 3000 Sine Wave Inverter/Charger

**xantrex™**



**NEW**

## PURE POWER. TRUE VALUE.

The Freedom SW 3000 inverter/charger is packed with features and it is one of the most advanced inverter/chargers in the market today. It features premium sine wave output with high surge capability and temperature compensated, power factor corrected, multi-stage charging to meet power needs of demanding loads including inductive motor loads.

The Freedom SW 3000 inverter/charger provides 3000 watts of utility grade AC power to operate commonly used AC-powered electronics such as plasma television sets, microwaves, entertainment systems, computers, printers, power tools, refrigerators and much more.

### 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
- ▶ Advanced configuration options for customized applications
- ▶ 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
- ▶ Ignition lockout prevents unnecessary battery drain when the alternator is not providing power\*
- ▶ Wide operating temperature range: -4°F to 140°F (-20°C to 60°C)
- ▶ Conformal coated circuit boards for humid environments
- ▶ Dual input / Dual output AC interface
- ▶ Compatible with the Xantrex Automatic Generator Start\*\* (Part# 809-0915)
- ▶ On/off remote control panel with 25' cable included (Part# 808-9002)
- ▶ Field upgradeable firmware
- ▶ Meets CSA, UL458 (with marine supplement), ABYC and FCC Part 15, Class B requirements

\*When used with the remote panel

\*\*Sold separately

### Protection Features

- ▶ Battery over-voltage and under-voltage protection
- ▶ Over-temperature shutdown
- ▶ Automatic overload protection
- ▶ Short-circuit protection
- ▶ Integrated, resettable AC breakers

**Also Available:** Freedom SW 2000 Sine Wave Inverter/Charger (Part# 815-2000)

**3000  
Watts**

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**FREEDOM SW 3000 Sine Wave Inverter/Charger****Electrical Specifications - Inverter**

Output power (continuous at 25°C)	3000 W
Surge rating (10 seconds)	6000 W
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)	3 Adc
Input DC voltage range	10 - 16 Vdc
AC connections	Split phase in / dual out, Dual in / dual out

**Electrical Specifications - Charger**

Output current	150 A
Output voltage	12 Vdc
Output voltage range	5 - 16 Vdc
Charge control	3 stage with manual equalize
Charge temperature compensation	Remote battery sensor (included)
Optimal Efficiency	> 85%
AC input power factor	0.95
Input current (for 150 A charging)	22 A rms nominal
Input AC voltage	120 Vac
Input AC voltage range	95 - 140 Vac
Dead battery charge	> 5 Vdc

**General Specifications**

Compatible battery types	Flooded / gel / AGM
Transfer relay rating	2 legs at 30 A each
Transfer time (AC to inverter and inverter to AC)	< 20 ms
Optimal operating temperature range	- 4°F to 140°F (- 20°C to 60°C)
Storage ambient temperature range	- 40°F to 185°F (- 40°C to 85°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	33.5 kg (73.7 lbs)
Warranty	2 years
Master carton quantity	1
Master carton dimensions (H x W x L)	11.8 x 17.1 x 20.5" (30 x 43.5 x 52.2 cm)
Master carton weight	35 kg (77 lbs)
Part Number	815-3000

**Accessories**

Freedom SW on/off remote panel	Part# 808-2009 - INCLUDED
Battery temperature sensor	Part# 808-0946 - INCLUDED
Automatic Generator Start (AGS)	Part# 809-0915 - SOLD SEPARATELY
System control panel (SCP)	Part# 809-0910 - SOLD SEPARATELY
25' network cable for system control panel	Part# 809-0940 - SOLD SEPARATELY
75' network cable for system control panel	Part# 809-0942 - SOLD SEPARATELY
Drip shield	Part# 808-9004 - SOLD SEPARATELY

**Regulatory & Environmental Compliance**

ETL certified to CSA 107.1, UL458 with marine supplement\*\*, FCC Part 15, Class B

**\*\*When used with the Drip Shield. Drip Shield sold separately.**

**Note: Specifications subject to change without notice**