

FREEDOMeGEN

BY MISSION CRITICAL ELECTRONICS

LITHIUM-ION BATTERIES ARE SAFE, POWERFUL, AND EFFICIENT

50% weight savings **50%** space savings **4X** energy density **6-8X** life of traditional batteries

Available from 105Ah to 410Ah as part of a fully customizable power generation system for boats in 12, 24, and 48 V capacities

THE SAFEST SYSTEM WITH REDUNDANT SAFETY FEATURES

- UL1973 certification from UL, the most respected independent body for safety and reliability

REDUCE GENERATOR RUNTIME

- Drastic reduction of generator runtime and the resulting noise, pollution and environmental footprint
- Reduces the role of a generator to a mere backup emergency power system
- Properly designed system may reduce the size of a generator

MAXIMIZE ONBOARD POWER

- Utilize the auxiliary power on a boat to charge batteries
- Using marine combiner kits, a FREEDOM eGEN system is able to combine power from all engines for quick replenishment of batteries
- Unlike traditional batteries, Xantrex batteries can accept massive charge current

OPTIONAL SOLAR PANELS TO PROLONG BATTERY LIFE

- Solar integration further reduces generator runtime
- Clean, green power to continuously replenish batteries and power smaller loads

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MORE INFO:

Contact our Sales team to learn more about our products and solutions

sales@xantrex.com

xantrexTM
A MISSION CRITICAL ELECTRONICS BRAND

FREEDOMeGEN
BY MISSION CRITICAL ELECTRONICS

TURN ON THE TV, NOT THE GENERATOR

FULLY INTEGRATED AC & DC POWER SYSTEM

Reduce generator runtime

Maximize the onboard power

Lower operating cost

Lithium-ion batteries are safe,
powerful and efficient

Optional solar panels to prolong
battery life

EXCEPTIONAL SERVICE LIFE

**6000
CYCLES***

*up to 6000 under ideal conditions.



FREEDOMeGEN

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The FREEDOM eGEN is a fully integrated system that offers the most reliable AC and DC power to run an air conditioner and other high power loads in all climate conditions and precise battery management for accurately charging Lithium-ion batteries from multiple sources. The most compelling benefit is the freedom and confidence it offers to boaters so they may anchor out for longer periods and enjoy noise-free cruising or sailing.

SAFEST SYSTEM

Integrated Solution with Redundant Safety Features

- UL 1973 certified for safety (310 & 410 Ah)
- Reserve capacity warning to recharge
- Individual cell management ensures each cell is treated safely

LONGEST RUN TIME AND EFFICIENCY

Highest Quality Lithium and Components – No Short Cuts

LEVERAGE THE POWER FROM ONBOARD ENGINES

Combine the Power from Engines for Rapid Recharge of Batteries


- Custom designed combiner box and voltage regulator for safe recharging
- Easily configurable design to suit different needs and applications

LONGEST BATTERY LIFE

LiFePO₄ cell balancing and temperature control all contribute to the longest lasting batteries on the market


- Lithium-ion (LiFePO₄) is the safest chemistry on the market today
- Iron Phosphate (LiFePO₄) chemistry can have twice the cycle and calendar life than many other lithium chemistries during typical vehicle usage
- No cell is ever overcharged

1



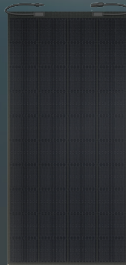
**FREEDOM XC PRO MARINE
INVERTER/CHARGER**
Part #: 818-2015, 818-3015

2




LITHIUM-ION BATTERY
Part #: 884-0310-12

3



XANTREX SOLAR PANEL
MULTIPLE RIGID AND FLEX OPTIONS

4



SOLAR CHARGE CONTROLLER
MULTIPLE PWM OR MPPT OPTIONS

EXCEPTIONAL SERVICE LIFE

**6000
CYCLES¹**

**UL1973
CERTIFIED BATTERY**

Battery² will not crush³ and prevent potential impact from propagating to other cells.

¹up to 6000 under ideal conditions.

²310and 410 Ah options

³Tested to 20,000 lb crush test as part of UL1973 testing and evaluation

