

FREEDOM eGEN MAX

THE ULTIMATE OFF-GRID EXPERIENCE

FULLY CUSTOMIZABLE

Choose from 48V, 24V or 12V system

INTELLIGENT METRICS

View and monitor power usage, fuel savings and other critical system info on your smartphone or tablet

MULTIPLE CHARGING SOURCES

The batteries are charged when plugged into shore power, through solar panels, and engine alternator

BYE GENERATOR

Elimination or drastic reduction of generator runtime and the resulting noise, pollution and environmental footprint

HARNESS THE SUN

Solar system integration further enhances battery pack life and increased HVAC and electronics runtime

MORE INFO:

Bob Tooker
RV OEM Sales Manager
574.849.8241 bob.tooker@xantrex.com

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xantrexTM
A MISSION CRITICAL ELECTRONICS BRAND

FREEDOM eGEN MAX THE ULTIMATE OFF-GRID EXPERIENCE

Greenest power solution in the market

Turns an RV into a hybrid vehicle

Automatic climate control

Designed for occupant safety & convenience

Intelligent tracking anytime anywhere

Fully recharges batteries in <2 hours*

*It may be possible to fully recharge a depleted 48Vdc 300 Ahr battery in less than 2 hours

PRELIMINARY BROCHURE. INFORMATION AND DESIGN SUBJECT TO CHANGE.

LITHIUM ION POWER SYSTEM

FREEDOM eGEN MAX

The FREEDOM eGEN Max is a revolutionary lithium iron powered technology that integrates with an RV’s engine and electrical system to provide automatic climate control. The FREEDOM eGEN Max provides AC & DC power to run everything from air conditioners to hotel loads in all climate conditions. At the heart of this technology is a powerful 48Vdc lithium iron battery that is constantly replenished via multiple sources such as shore power, solar and factory engine alternator. It is recommended to add a high output auxiliary alternator to the system to achieve faster recharge times.

The battery pack with built-in BMS (Battery Management System), voltage regulator and heating pad enables optimal performance in all temperatures. The proprietary DC pump and air compressor deliver heating and air conditioning through front factory vents and roof top. A key part of the system is the new FREEDOM EX 4K 48Vdc inverter/charger with a built-in 48Vdc to 12Vdc converter. The FREEDOM EX 4K cranks out 90A at 48Vdc for exceptionally fast battery recharging in addition to providing 4000 watts AC power and 12Vdc power for DC loads.

Although the FREEDOM eGEN Max may be easily configured to support 12Vdc and 24Vdc system, the 48Vdc configuration enables clean and easy installation utilizing lighter gauge cables and components. A properly sized FREEDOM eGEN Max system may eliminate a generator altogether or reduce the generator to a mere backup emergency power option.



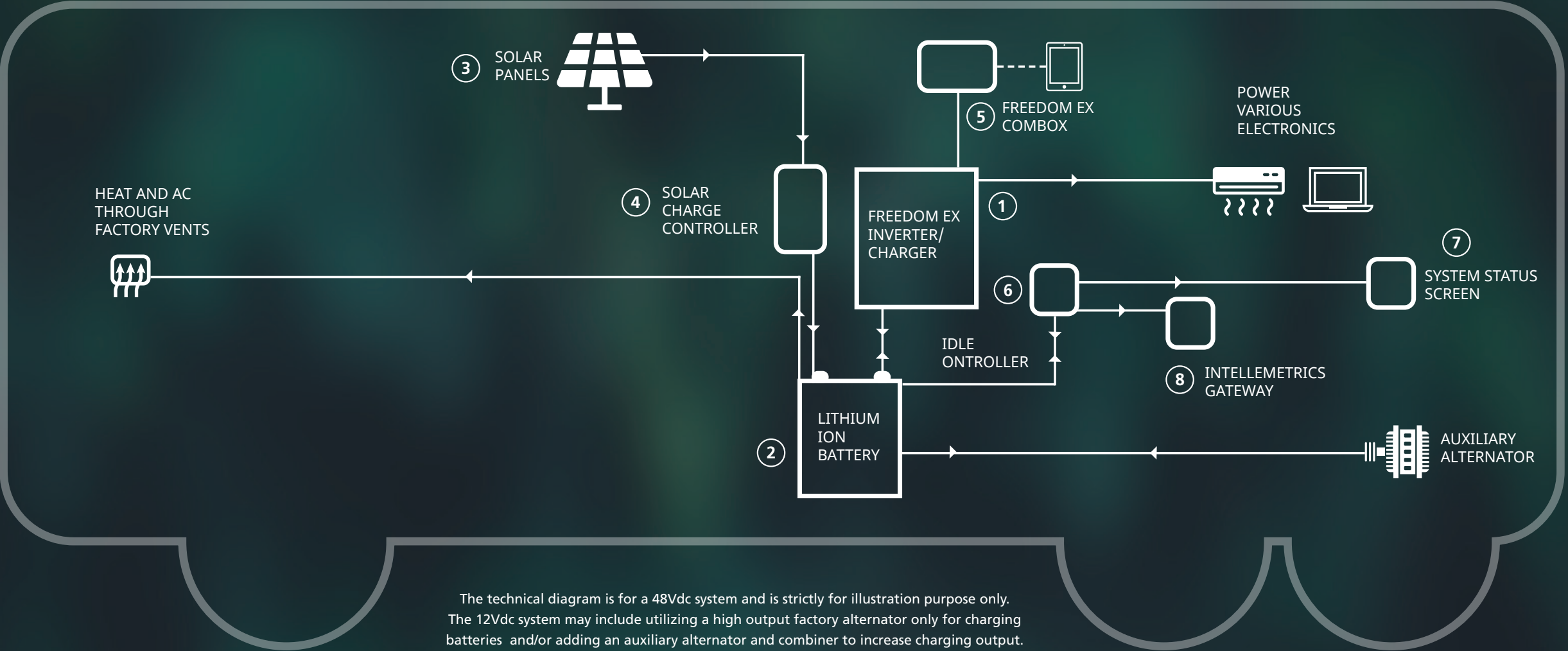
Unique Hybrid Function

The seamless behind-the-scene operation of this system converts an RV into a hybrid vehicle by automatically turning engine on to charge depleted batteries and turning engine off when batteries are fully charged. The biggest benefit is providing RVers a quiet and peaceful off-grid lifestyle. This system empowers RVers with freedom and confidence to extend and enjoy their adventures on their own terms.



Automatic Climate Control

The most significant innovation is heating and air conditioning through any of the RV’s factory vents. A major benefit of having integrated climate control is the potential elimination of an additional air conditioner unit on the RV roof. Without multiple air condition units needed for cooling it frees up space for additional renewable power solutions such as solar, enhancing the battery life.



The technical diagram is for a 48Vdc system and is strictly for illustration purpose only. The 12Vdc system may include utilizing a high output factory alternator only for charging batteries and/or adding an auxiliary alternator and combiner to increase charging output.

1



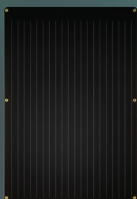
FREEDOM EX 4000
INVERTER/CHARGER

2



LITHIUM ION BATTERY
12V, 24V and 48V options

3



XANTREX SOLAR
PANELS
MULTIPLE RIGID OR
FLEXIBLE OPTIONS

4



SOLAR CHARGE
CONTROLLER
MPPT options in different
size available

5



INVERTER DISPLAY
PANEL

6



IDLE
CONTROLLER

7



SYSTEM STATUS
SCREEN

8



INTELLEMETRICS
GATEWAY