

FREEDOM eGEN

LITHIUM ION POWER SYSTEM



	Lithium Battery	Inverter/Charger	Combiner Controller	Secondary Alternator	Dash Air	IMS	Solar
FREEDOM eGEN Lite	●	●	●				Optional
FREEDOM eGEN	●	●	●	●			Optional
FREEDOM eGEN Air	●	●	●	●	●		Optional
FREEDOM eGEN Max	●	●	●	●	●	●	Optional

FREEDOM eGEN

NO MORE IDLING OR JUMP STARTS

LITHIUM IS SAFE, POWERFUL AND EFFICIENT

50%
weight savings

50%
space savings

4X
energy density

6-8X
life of traditional batteries

Available from 105Ah to 620Ah as part of a fully customizable power generation system for trucks

KEY TO DRIVER COMFORT, PRODUCTIVITY & RETENTION

Take the worry out of your driver's mind and enable them to focus on the job
A quieter, cleaner, and greener alternative to traditional APUs and truck auto-starting

ROI IN LESS THAN 3 YEARS

Initial upfront investment is easily off-set by savings in fuel, maintenance and battery replacements
Fleets would have realized savings before trading them in

MULTIPLE CHARGING SOURCES INCLUDING SOLAR KEEP BATTERIES CHARGED

The alternator charges the battery when the truck is running
The inverter/charger charges the battery when the truck is parked and plugged in
Solar continuously trickle charges batteries to further extend its service life and electronics runtime

MORE INFO:
sales@xantrex.com

LOWER OVERALL OPERATING COSTS

Lithium is safe, powerful and efficient

Exceptional energy density

Solar option to enhance battery life

Virtually unlimited power for medical devices, microwave and coffee pot

Run HVAC overnight for a sound sleep

Cleaner, greener alternative to diesel APUs

EXCEPTIONAL SERVICE LIFE

6000
CYCLES*

*up to 6000 under ideal conditions.

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FREEDOM eGEN

The FREEDOM eGEN is a fully integrated system that offers virtually unlimited AC and DC power to run hotel loads and even HVAC overnight for exceptional driver comfort and productivity. Fleets and drivers no longer have to worry about idling or runtime for their hotel loads such as medical devices, coffee pot, microwave or even air conditioning. The Freedom eGEN, unlike idling your truck's engine or using a diesel APU, provides the exact amount of power needed to run all of your hotel loads without using fuel or needing maintenance.

SAFEST SYSTEM

Integrated solution with redundant safety features

- Lithium ion (LiFePO₄) is the safest chemistry on the market today
- Reserve capacity warning to recharge
- Individual cell management ensures each cell is treated safely

HELPS COMPLY WITH ANTI-IDLING & HOS REGULATIONS

No need to idle for hotel loads

- Drivers can enjoy their 34-hour off-duty break without worrying about power or auto-start or starting truck after break
- Enough power for a good night's sleep & more
- Reduces load on alternator resulting in fuel savings

DEDICATED BATTERY BANK FOR HOTEL LOADS AND HVAC

Half the size and weight and engineered to last 6-8 times longer than traditional batteries

- A new approach to power management eliminates idling, auto-starts and jump-starts
- The battery is constantly replenished through multiple sources – charger, alternator and solar
- Retains a separate small battery bank for engine starting

LONGEST BATTERY LIFE

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

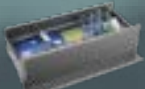
- Lithium ion (LiFePO₄) is the safest chemistry on the market today
- Iron phosphate (LiFePO₄) chemistry can have twice the cycle and calendar life than many other lithium chemistries during typical vehicle usage
- UL 1973 certified for safety (310 Ah & 410 Ah)
- No cell is ever overcharged

1  FREEDOM XC PRO INVERTER/CHARGER
Part #: 818-2010, 818-3010

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

3  XANTREX SOLAR PANELS
MULTIPLE RIGID OR FLEXIBLE OPTIONS

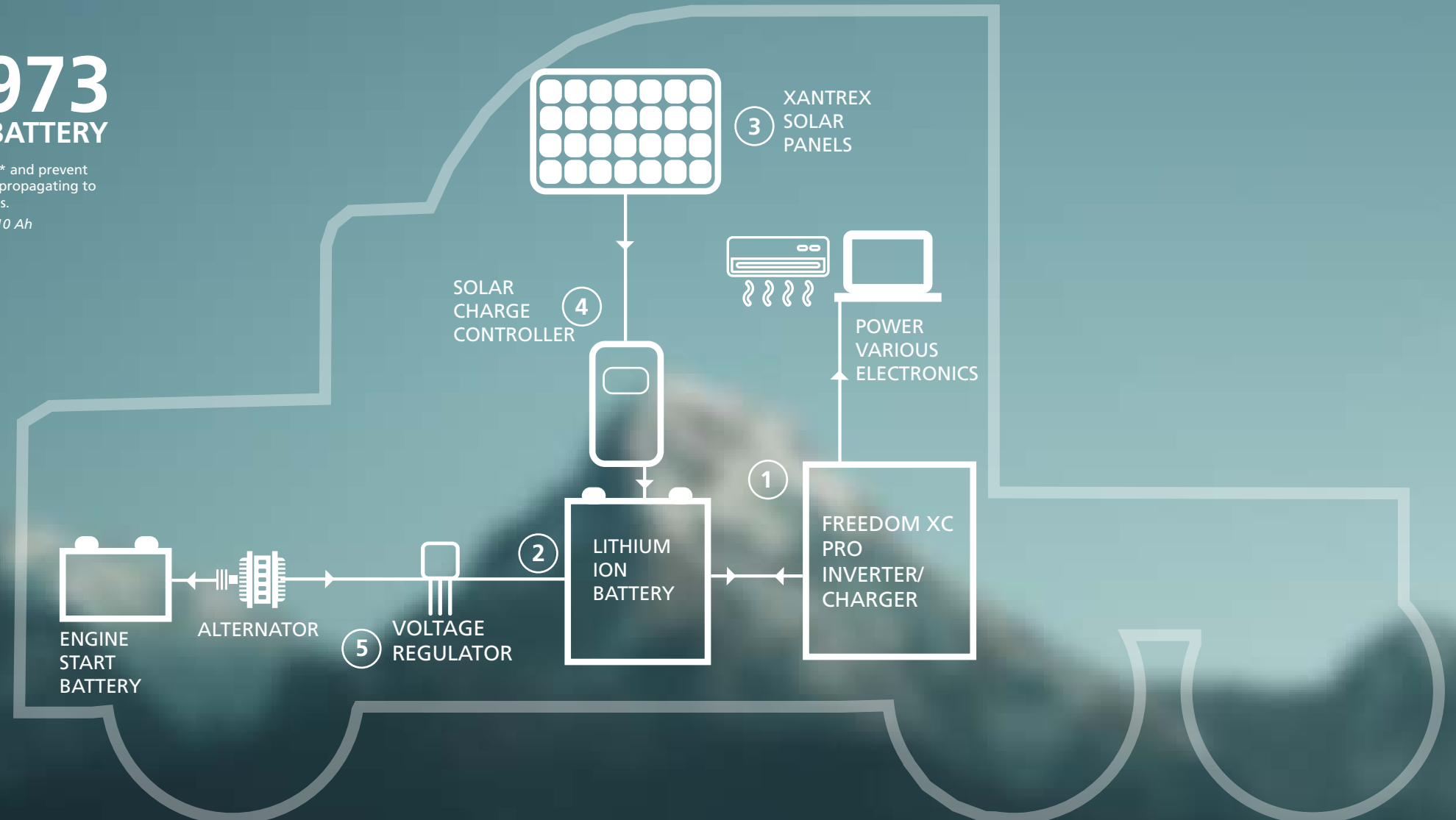
4  SOLAR CHARGE CONTROLLER
MULTIPLE OPTIONS PWM OR MPPT

5  VOLTAGE REGULATOR
Part #: 882-0010-12
(PART OF THE ALTERNATOR KIT)

UL1973 CERTIFIED BATTERY

Battery will not crush* and prevent potential impact from propagating to other cells.

*310 Ah & 410 Ah



*tested to 20,000lb crush test as part of UL1973 testing and evaluation