

THE POWER EXPERTS ENGINE OFF POWER ANYTIME, ANYWHERE

A complete suite of power solutions

Idle mitigation systems
Generator free power systems
Energy generation, storage and conversion
Inverters, battery chargers, batteries, solar & high output alternators

Reliable power for operator performance and comfort

HVAC and hotel loads for cab comfort
Heavy duty onsite equipment & tools
Real time system performance data for ROI tracking



**KE KUSSMAUL
ELECTRONICS**



PURKEYS

MCE VEHICLE POWER

xantrex™





IDLE MITIGATION SYSTEM

Transforms a conventional vehicle into a hybrid when in park
Reduces emissions, protects the environment, quick ROI

- Lithium-ion battery powered solution delivers power for climate control, onboard electronics and jobsite tools
- The system integrates with a vehicle's electrical & engine system to provide engine off A/C and heating plus power for all onboard electronics
- Once the vehicle is in park mode, the system shuts down the engine and provides all required power from lithium-ion battery source
- For extended stationary use of vehicle, the system manages engine start/stop to recharge batteries as needed



Engine-off A/C Through the Factory Vents

Using patented ZeroRPM technology, the system provides cooling through the factory vents without running the chassis engine.



Engine-off Heat Through the Factory Vents

The system provides heating through the factory vents without running the chassis engine. You no longer have to enter a freezing vehicle on a cold day!



Lithium-Iron Power to All Electronics

Using safe Lithium-Iron batteries, the system provides power to all electronics (e.g. radio, lights, and computers) without running the chassis engine. The batteries have a five-year warranty.



Automatic Recharging

The batteries charge natively from a 12V alternator. Solar panel and shore power integrations are optional.



ZeroKEY™

ZeroKEY allows you to securely leave the vehicle while our system takes care of climate control and powering your electronics. When you return to the vehicle everything will be in operation as you left it.



ZeroIDLE®

ZeroIDLE prevents the IMS® from automatically starting the engine in "no-idle" zones. The operator can be notified by an optional buzzer, backup alarm, or voice annunciator.



ZeroDRAW™

Our system protects the chassis batteries from being drained from your vehicle's accessories. This protects you from returning to your vehicle to find a dead chassis battery.



Electric PTO (Optional)

The system can provide energy to powered take-off equipment such as hydraulic buckets, booms, and lifts, all while the engine is off.

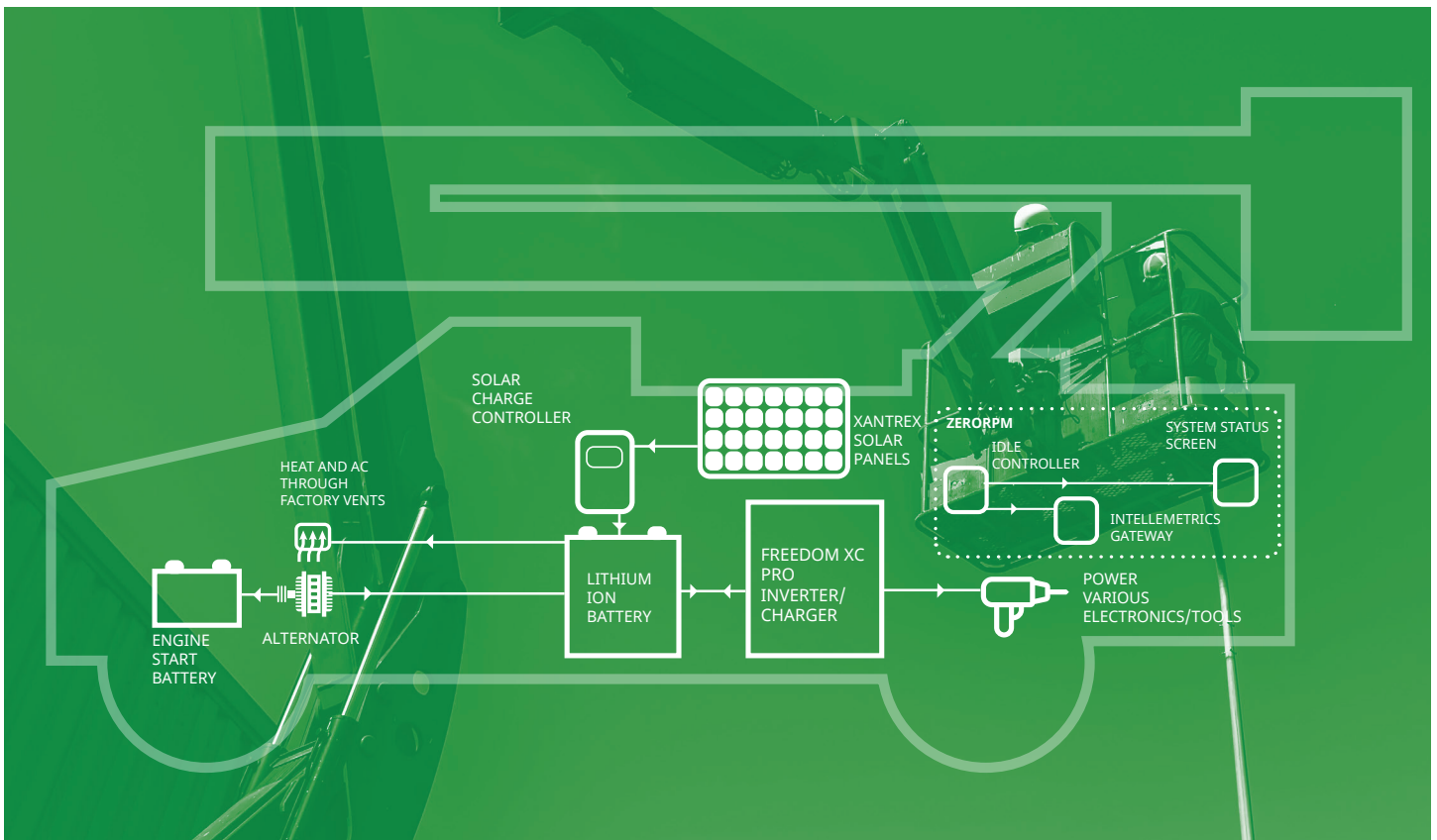
FREEDOM eGEN

BY MISSION CRITICAL ELECTRONICS

ENERGY STORAGE SYSTEM

Practical, clean, green power solution for extended runtime of onboard electronics and jobsite tools

- The heart of the FREEDOM eGEN system is a dedicated high power density lithium ion battery to run HVAC, hotel loads and tools
- The lithium battery pack delivers 6-8X life cycle of traditional batteries
- The battery pack may be replenished via multiple sources including high output auxiliary alternator, solar and shore power when plugged in
- The system may be used in conjunction with a generator but it significantly reduces generator runtime or may eliminate its use altogether



1



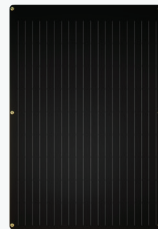
INVERTER/CHARGER
Multiple Options
2000W to 12000W
12Vdc, 24Vdc, 48Vdc

2



LITHIUM ION BATTERY-
Multiple Options
12Vdc, 24Vdc, 48Vdc,
1.3 kWh to 5.2kWh

3



XANTREX SOLAR PANELS
Multiple rigid and flex
options

4



SOLAR CHARGE CONTROLLER
Multiple Options -
MPPT OR PWM

5



AUXILIARY ALTERNATOR
Multiple Options
12Vdc, 24Vdc, 48Vdc
280A to 350A

INVERTERS

Xantrex Products



PROwatt SW

- Economical true sine wave solution
- Dual GFCI AC receptacles and USB charge port
- 120 Vac / 60 Hz & 230 Vac / 50 Hz models available
- Hardwire capability and shore power pass through via optional transfer relay
- Meets UL458 with marine supplement and CSA

Optional Accessories: Remote On/Off Switch (808-9001), 15 A Transfer Relay (808-0915), 50' Network Cable (31-6262-00)



FREEDOM X

- Full output from -4°F to 104°F. Operates up to 140°F
- Extended surge, 10 ms UPS like AC transfer time
- Configurable low battery voltage shutdown
- Meets UL458 with marine supplement, ABYC, CSA and FCC Part 15 Class B
- Huge wiring bay and quick connect terminals for fast and easy installation
- Ignition lockout to minimize battery drain
- Built-in 30 A Automatic Transfer Switch
- NEW 24VDC 2000W model now available

Optional Accessories: Remote Panel with 25' Cable (808-0817-01), 20 A GFCI Option (808-9817), Communication Cable 25' (31-6257-00), Communication Cable 50' (31-6262-00)

Models	Part Number	Input Voltage	Continuous Power	Surge Rating	AC Output	Transfer Relay	Remote Panel
PROwatt SW 600	806-1206	12 Vdc	540 W	1200 W	GFCI / hardwire via optional transfer relay	Optional	Optional (On/Off)
PROwatt SW 1000	806-1210		900 W	2000 W			
PROwatt SW 2000	806-1220		1800 W	3000 W			
FREEDOM X 1000	817-1000	12 Vdc	1000 W	2000 W**	Hardware/Optional GFCI	Yes	Optional (Digital)
FREEDOM X 1200	806-1212		1200 W	2400 W**			
FREEDOM X 2000	817-2000		2000 W	4000 W**			
FREEDOM X 3000	817-3000		3000 W	6000 W**			
FREEDOM X 2000	817-2000-21	24VDC	2000W	4000W**			

*Extended surge of 5 seconds **Extended surge of 2 seconds

BATTERY CHARGERS

Xantrex Products



TRUECHARGE²

- Lightweight, ultra-compact, universal chargers
- Settings for flooded, gel, AGM or lead-calcium batteries, as well as custom profile for different battery types
- Drip-proof design characteristics enable the charger to be mounted in multiple orientations
- Meets CE/EMC, ABYC, UL1564 and UL1236 with marine supplement standards

12 Vdc Applications **20 A** **40 A** **60 A** **80 A** **100 A** **120 A**

24 Vdc Applications **10 A** **20 A** **30 A** **40 A** **50 A** **60 A**

NOTE: 12V (80 A, 100 A, 120 A) and 24 Vdc (40 A, 50 A, 60 A) achieved through stacking.

Optional Accessories: TRUECHARGE2 Remote Panel (808-8040-01), Battery Temperature Sensor (808-0232-01).

Models	Part Number	Output Voltage	Power Output	Battery Banks	Remote Panel	Parallel Stacking
TRUECHARGE2 20	804-1220-02	24 Vdc	20 A	Three	Optional	Yes
TRUECHARGE2 40	804-1240-02		40 A			
TRUECHARGE2 60	804-1260-02		60 A			
TRUECHARGE2 10	804-2410		10 A			
TRUECHARGE2 20	804-2420		20 A			
TRUECHARGE2 30	804-2430		30 A			

INVERTER COMPARISON

Xantrex Products

PROWATT SW INVERTER



FREEDOM X INVERTER



Output Wave Form	True sine wave	True sine wave
Operating Temperature Range	32 to 104 °F (0 to 40 °C)	-4 to 140 °F (-20 to 60 °C)
Input Voltage (DC)	12V	12V & 24V models available
Models (Design - Compact, light-weight for all 3 product families)	12V (600W, 1000W, 2000W)	12V (1000W, 2000W, 3000W); 24V (2000W)
Surge* - 2X continuous power boost	More than 300 ms	More than 2 seconds
Hardwire	Yes, through optional transfer relay (808-0915)	Yes
Built-in transfer relay	No, optional accessory (808-0915)	Yes
12v Ignition On/Off	Yes, optional accessory (808-9001-01)	Yes
Remote Panel	Yes included	Yes – optional accessory (808-0817-02)
Built-in USB	Yes, 5Vdc, 500mA	No
Bluetooth Function	No	Yes, through optional bluetooth remote panel (808-0817-02)
GFCI on the unit	Yes	No – optional accessory (808-9817)
UL458/CSA listed	Yes	Yes
HALT tested	Yes	Yes

* duration of initial high current rush required for certain applications such as motor loads

FREEDOM X/XC/XC PRO ACCESSORIES

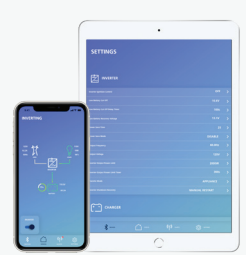
Xantrex Products



Bluetooth Remote Panel with 25' Cable (808-0817-02)

- Enables you to control & monitor the inverter from a convenient location and read important information such as AC IN/OUT voltage/current, battery voltage/current, percentage status bar for inverter AC output and fault & error codes. Download and connect to the Xantrex app, available on Android and iOS.
- FREEDOM X Remote Panel with 25' Cable (808-0817-01) also available allowing for all the same functionality, but without the option to connect via bluetooth.**

FXC CONTROL APP



- Easily monitor system status
- Monitor alerts
- Change settings conveniently
- Connect via bluetooth
- Available on Android and iOS

20 A GFCI Option (808-9817)

- Attach to the back of your Freedom X or XC to enable you to plug electronics and appliances directly on the unit



TRUE SINE WAVE INVERTER/CHARGERS

Xantrex Products

**HYBRID,
LITHIUM ION
COMPATIBLE**



FREEDOM SW

- State-of-the-art sine wave series with advanced features
- Ideal upgrade for Magnum, RS, MS, Trace SW and other older make/models
- Built-in hybrid functionality - combines shore and AC generator input to power loads
- Exceptional surge for extended time – will operate motor loads, compressors, hot plates, sump pumps & other heavy loads within its power range
- Meets UL458 with marine supplement, CSA, ABYC and FCC Class B

Optional Accessories: System Control Panel (809-0921), Automatic Generator Start (809-0915), GFCI Option (808-9003), Remote Panel (808-9002), 75' Network Cable (809-0942), 25' Network Cable (809-0940), Cable for Series Stacking (808-9005), Sequence Power Manager (809-0913), Conext ComBox for FREEDOM SW (809-0918), Network Cable Adapter (808-9010), FREEDOM SW Remote Panel Mounting Bracket (XAN-BRFSW)



System Control Panel
(809-0921)



FREEDOM SW ComBox
(809-0918)



Automatic Generator Start
(809-0915)



GFCI Option
(808-9003)

**LITHIUM ION
COMPATIBLE**



FREEDOM XC

- Full output in invert or charge mode from -4°F to 104°F. Operates up to 140°F
- Ability to operate under weak shore or generator power
- Extended surge, power share, equalization, power factor correction
- Meets UL458 with marine supplement, ABYC, CSA and FCC Part 15 Class B
- Dead battery charging down to 0 Vdc
- Configurable low battery voltage shutdown
- Built-in 30 A Automatic Transfer Switch
- Configurable charge algorithm
- 10 ms UPS like AC transfer time

Optional Accessories: Remote Panel with 25' Cable (808-0817-01), 20 A GFCI Option (808-9817), Communication Cable 25' (31-6257-00), Communication Cable 50' (31-6262-00)

**LITHIUM ION
COMPATIBLE**



FREEDOM XC PRO

- Offers all great features of the FREEDOM XC but with a bigger charger and built-in com-card
- The advanced com-card supports RV-C & J1939 protocols for seamless integration with 3rd party monitoring and control systems
- 3000W model has a built-in 50A transfer relay and 150A battery charger

**INTEGRATED
COM-CARD**

Models	Part Number	Input Voltage	Continuous Power	Surge Rating	AC Output	Charger Output	Remote Panel
FREEDOM SW 2012	815-2012	12 Vdc	2000 W	4000 W*	Hardwire and optional GFCI	100 A	Optional (On/Off, Advanced)
FREEDOM SW 3012	815-3012		3000 W	6000 W*		150 A	
FREEDOM SW 2024	815-2024	24 Vdc	2000 W	4000 W*		50 A	
FREEDOM SW 3024	815-3024		3000 W	6000 W*		75 A	
FREEDOM XC 1000	817-1050	12 Vdc	1000 W	2000 W**		50 A	Optional Accessory (Digital)
FREEDOM XC 2000	817-2080		2000 W	4000 W**		80 A	
FREEDOM XC PRO 2000	818-2010	12 Vdc	2000 W	4000 W**		100A	Optional Accessory (Digital)
FREEDOM XC PRO 3000	818-3010	12 Vdc	3000 W	6000 W**		150A	

*Extended surge of 5 seconds **Extended surge of 2 seconds

INVERTER/CHARGER COMPARISON

Xantrex Products

FREEDOM SW
INVERTER/CHARGER



FREEDOM XC
INVERTER/CHARGER



FREEDOM XC PRO
INVERTER/CHARGER



Output Wave Form	True sine wave	True sine wave	True sine wave
Operating Temperature Range	-4 to 140 °F (-20 to 60 °C)	-4 to 140 °F (-20 to 60 °C)	-4 to 140 °F (-20 to 60 °C)
Input Voltage (DC)	12V	12V	12V
Models	12V (2000W/100A, 3000W/150A); 24V (2000W/50A, 3000W/75A)	12V (1000W/50A, 2000W/80A)	12V (2000W/100A, 3000W/150A)
Built-in Transfer Relay	30A	30A	50A (3000W model) 30A (2000W model)
Surge* - 2X continuous power boost	More than 5 seconds	More than 2 seconds	5 seconds
Lithium Ion Compatibility	Yes	Yes	Yes
Dead battery charging (batteries drained to extremely low voltage)	Yes	Yes	Yes
Temperature sensitive charging	Yes	Yes	Yes
Battery Equalization	Yes	Yes	Yes
Custom Profile (set a limit output, set low battery cut off points, select battery type & other custom features)	Yes	Yes	Yes
AC wiring	Screw Terminals	Quick Connect Terminals	Quick Connect Terminals
Design	Heavy Duty, Transformer Based	Compact, Lightweight	Compact, Lightweight
Remote Panel	Optional Remote Panel (809-0921)	Optional Bluetooth LCD (808-0817-02)	Optional Bluetooth LCD (808-0817-02)
Bluetooth Function	No	Using the FREEDOM X Bluetooth Remote Panel (808-0817-02) and FXC Control App	Using the FREEDOM X Bluetooth Remote Panel (808-0817-02) and FXC Control App
UL 458 / CSA listed	Yes	Yes	Yes
HALT tested	Yes	Yes	Yes

* duration of initial high current rush required for certain applications such as motor loads

120 VAC / 60 HZ INVERTER SELECTOR GUIDE

Xantrex Products

INVERTERS						
TRUE SINE WAVE						
	PROwatt SW 600	PROwatt SW 1000	PROwatt SW 2000	FREEDOM X 1000	FREEDOM X 2000	FREEDOM X 3000
	806-1206	806-1210	806-1220	817-1000	817-2000	817-3000

INVERTER CHARGERS						
TRUE SINE WAVE						
	FREEDOM XC 1000	FREEDOM XC 2000	FREEDOM SW 2012	FREEDOM SW 3012	FREEDOM XC PRO 2000	FREEDOM XC PRO 3000
	817-1050	817-2080	815-2012	815-3012	818-2010	818-3010

ELECTRONICS

Laptop Computer (100 w)	●	●	●	●	●	●
Video Game Console (150 w)	●	●	●	●	●	●
LED TV (200 w)	●	●	●	●	●	●
CPAP (250 w)	●	●	●	●	●	●
Stereo Receiver (450 w)	●	●	●	●	●	●

Laptop Computer (100 w)	●	●	●	●	●	●
Video Game Console (150 w)	●	●	●	●	●	●
LED TV (200 w)	●	●	●	●	●	●
CPAP (250 w)	●	●	●	●	●	●
Stereo Receiver (450 w)	●	●	●	●	●	●

APPLIANCES

Blender (500 w)		●	●	●	●	●
Toaster (850 w)			●	●	●	●
Refrigerator (900 w)			●	●	●	●
Vacuum (1000 w)			●	●	●	●
Microwave (1000 w)			●	●	●	●
Kettle (1200 w)			●	●	●	●
Iron (1200 w)			●	●	●	●
Coffee Maker (1200 w)			●	●	●	●
Induction Cooktop (1400 w)			●	●	●	●
Hair Dryer (1500 w)			●	●	●	●
Rooftop Air conditioner (15000 BTU)						●

Blender (500 w)	●	●	●	●	●	●
Toaster (850 w)	●	●	●	●	●	●
Refrigerator (900 w)		●	●	●	●	●
Vacuum (1000 w)		●	●	●	●	●
Microwave (1000 w)		●	●	●	●	●
Kettle (1200 w)		●	●	●	●	●
Iron (1200 w)		●	●	●	●	●
Coffee Maker (1200 w)		●	●	●	●	●
Induction Cooktop (1400 w)		●	●	●	●	●
Hair Dryer (1500 w)		●	●	●	●	●
Rooftop Air conditioner (15000 BTU)				●		●

TOOLS

1" Handheld Drill (1000 w)			●	●	●	
9" Disc Sander (1200 w)			●	●	●	
8¼" Circular Saw (1400 w)			●	●	●	
110 V Air Compressor (1800 w)				●	●	

1" Handheld Drill (1000 w)		●	●	●	●	●
9" Disc Sander (1200 w)		●	●	●	●	●
8¼" Circular Saw (1400 w)		●	●	●	●	●
110 V Air Compressor (1800 w)		●	●	●	●	●

FEATURES

Continuous Power (Watts)	540	900	1800	1000	2000	3000
Charging Output (Amps)						
Transfer Switch	^	^	^	●	●	●
Remote Panel	^	^	^	^	^	^
Hardwire Option	^^	^^	^^	●	●	●
GFCI AC Receptable	●	●	●	^	^	^
USB Port	●	●	●			
Built-in Communications Card						

Continuous Power (Watts)	1000	2000	2000	3000	2000	3000
Charging Output (Amps)	50	80	100	150	100	150
Transfer Switch	●	●	●	●	●	●
Remote Panel	^	^	^	^	^	^
Hardwire Option	●	●	●	●	●	●
GFCI AC Receptable	^	^	^	^	^	^
USB Port						
Built-in Communications Card					●	●

^ Optional accessory

^^ Achieved by adding the optional Transfer Switch (808-0915)

XANTREX LITHIUM ION BATTERIES

Designed to work with Xantrex Inverter/Charger and Xantrex Solar



105Ah

- Group 27
- Parallel stack up to 4 batteries



125Ah

- Group 31
- Parallel stack up to 4 batteries



240Ah

- Parallel stack up to 2 batteries

UL CERTIFIED CELLS

For installation and use in mobile applications

- Internal BMS - reduces footprint
- Cell Balancing - extends lifetime of battery
- LED's to Monitor State of Charge
- Remote Panel - view status of battery, turn battery on and off
- Bluetooth - connect to the Xantrex mobile app to view status of battery



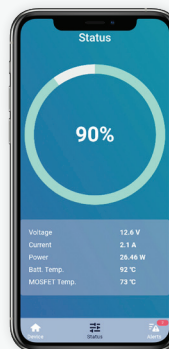
XANTREX APP

- Connect with bluetooth
- Monitor battery

DOWNLOAD ON



CONNECT WITH Bluetooth



DC BATTERY CABLES + FUSE KITS



Pre-terminated DC battery cables and fuse block kit for a fast and easy install between your inverter and battery.

12V Inverter Size Range

- S - 600-800W
- M - 900-1300W
- L - 1400-2300W
- XL - 2400-3000W

Part #	Description
883-0105-12	105Ah 12V Xantrex Lithium Ion Battery
883-0125-12	125Ah 12V Xantrex Lithium Ion Battery
883-0240-12	240Ah 12V Xantrex Lithium Ion Battery
809-084G	DC Battery Cables + Fuse S-Kit
809-082G	DC Battery Cables + Fuse M-Kit
809-0820	DC Battery Cables + Fuse L-Kit
809-0840	DC Battery Cables + Fuse XL-Kit

XANTREX LITHIUM VS TRADITIONAL

Xantrex Products

Group 31 Comparison

Features	Lead Acid Gel	Xantrex
Battery Capacity	100Ah	125Ah
Usable Capacity	30-50%	98%
Charging Mode	Bulk to 80%	Bulk to 99%
Charging Rate	30% of Maximum Capacity	80% of Maximum Capacity
Wasted Energy	15%	0%
Life Cycles	500-700	6,000 (under ideal conditions)
Voltage at 50% SOC	10.5Vdc	13.2Vdc
Voltage at 25% SOC	Dead	12.4Vdc
Weight	60+lbs	30lbs
\$\$\$ / Cycle	~\$0.5	~\$0.4
Features	Zero	Bluetooth, State of Charge

Group 27 Comparison

Features	Lead Acid Gel	Xantrex
Battery Capacity	100Ah	105Ah
Usable Capacity	30-50%	98%
Charging Mode	Bulk to 80%	Bulk to 99%
Charging Rate	30% of Maximum Capacity	80% of Maximum Capacity
Wasted Energy	15%	0%
Life Cycles	500-700	6,000 (under ideal conditions)
Voltage at 50% SOC	10.5Vdc	13.2Vdc
Voltage at 25% SOC	Dead	12.4Vdc
Weight	65+lbs	30lbs
\$\$\$ / Cycle	~\$0.4	~\$0.35
Features	Zero	Bluetooth, State of Charge

XANTREX LITHIUM ION BATTERIES

Designed to work with Xantrex Inverter/Charger and Xantrex Solar



310Ah
12V



410Ah
12V



100Ah
51V



205Ah
24V

PARALLEL STACK UPTO 8 BATTERIES

UL CERTIFIED CELLS

For installation and use in mobile applications

- Internal BMS - reduces footprint
- Integrated eGEN chassis connections for alternator control
- Remote SOC gauge – view status, SOC, faults etc.
- Cell Balancing – extends life of the battery and provides all Ah's
- Bluetooth - connect to the Xantrex mobile app to view status of battery

Part #	Description
884-0310-12	310Ah 12V Xantrex Lithium Ion Battery
884-0410-12	410Ah 12V Xantrex Lithium Ion Battery
884-0205-24	205Ah 24V Xantrex Lithium Ion Battery
884-0100-51	100Ah 51V Xantrex Lithium Ion Battery



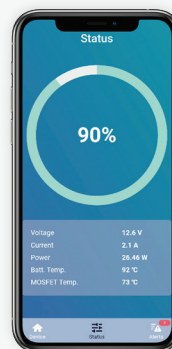
XANTREX APP

- Connect with bluetooth
- Monitor battery

DOWNLOAD ON



CONNECT WITH Bluetooth

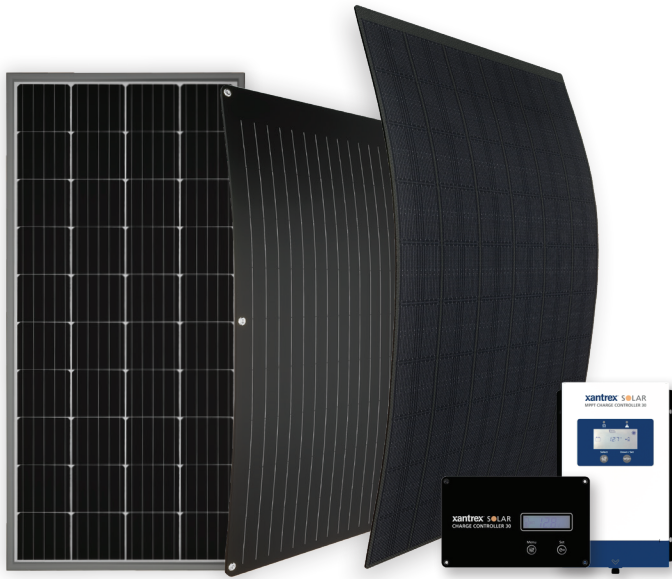


SOLAR

Xantrex Products

Maintenance free, renewable solutions to maximize battery life & prolong power supply

The Xantrex Solar panels feature PERC (Passivated Emitted and Rear Contact) and mono-crystalline cells, a special cell technology that increases module efficiency significantly over standard solar cells.



xantrex™ SOLAR

Rigid and flex panel options

Xantrex offers durable and high efficiency glass panels that are ideal for any trucking application. Xantrex also offers semi flexible panels that is lightweight, durable and easy to install. Xantrex offers a variety of optional accessories including mounting hardware and cables to help you complete your solar installation without any hassles.

With over 2,000 points of contact per cell, the Xantrex Solar Max flex panels are precision-engineered to ensure long-lasting performance in the toughest weather conditions. The mesh-grid technology combined with monocrystalline PERC cells provides superior durability, reliability, and performance compared to traditional busbar technology. Subjected to extreme environmental and accelerated life cycle testing beyond regulatory standards, Solar Max was tested to be 50X more durable and can harvest up to 20% more energy than a standard flexible panel.

SOLAR PANELS

Part #	Description
780-0100	100W Solar Panel
780-0160	160W Solar Panel
781-0110	110W Solar Flex Panel
784-0110	110W Xantrex Solar Max Flex Panel
784-0110S	110W Xantrex Solar Max Flex Slim Panel
784-0220	220W Xantrex Solar Max Flex Panel
784-0330	330W Xantrex Solar Max Flex Panel

CHARGE CONTROLLER

Part #	Description
709-3024-01	Charge Controller PWM 30
710-3024-01	Charge Controller MPPT 30
C12	12A (12Vdc)
C35	35A (12 & 24Vdc)
C40	40A (12, 24 & 48Vdc)
C60	60A (12 & 24Vdc)

ACCESSORIES

Part #	Description
708-0030	PV Extension Cables (15')
708-0040	PV Single Connector (1 Pair)
708-0050	PV Branch Connector (1 Pair)
708-0060	PV Connector Assembly Tool
708-0070	Mounting Hardware
708-0090	Roof Entry Cable
708-0120	SAE-to-Furrion Battery Adapter Cable
708-0130	Xantrex Solar Sidewall Port
708-0150	Starter Solar Cable Kit

CUSTOMIZE AND BUILD A SOLAR SYSTEM WITH THE RIGHT TYPE & SIZED COMPONENTS:

- 1 XANTREX SOLAR PANELS
+
- 2 ADD SOLAR CHARGE CONTROLLER
+
- 3 ADD THE SOLAR CABLE KIT (708- 0150) & OTHER ACCESSORIES TO COMPLETE THE INSTALL

POWER ACCESSORIES

Kussmaul Products



AUTO EJECTS

- 120 Volts AC, 20 Amps
- Automatically disconnects shoreline
- Completely sealed
- Eliminates broken shoreline
- 2 year warranty

- Can use a Standard Waterproof Cover, Deluxe
- Trailer Eject model designed for vehicles that do Not have a "Starter Signal"
- Variety of 15A and 20A models

Part #	Description
091-55-20-120	Super Auto Eject



BATTERY ISOLATORS

- Controller that detects when a vehicle's alternator is charging the main battery and then closes a solenoid to tie-in charge to an auxiliary battery
- When the engine is stopped or charge voltage is no longer present, the solenoid opens to

isolate the batteries

- Uses a solenoid rather than an isolation diode which typically causes a 0.7 volt drop, thus auxiliary battery receives full charge

Part #	Description
091-208-3-12	Auto Isolator 3
091-139-2-12	Auto Isolator I



DUAL USB PORT

- Dual USB Charging Ports
- Quick and easy way to recharge electronic devices in a vehicle
- 4.8 Amps max output allows charging of 2 iPads/ tablets at the same time

- Reverse polarity protected
- Can be connected to 12V or 24V switched ignition or directly to battery
- Additional protection with closed weatherproof door in Weatherproof model

Part #	Description
091-219-5	USB Dual Port 4.8
091-219-5-038-1	USB EZ Mount Assembly
091-219-5-WP	Weather Proof USB Dual Port 4.8



LOAD MANAGER

- Variety of models with different no. of loads shedding
- Automatically Sheds Loads to Prevent Electrical System Overload
- Eliminates Power Surges in Electrical System

- Controls Load Relays
- Reversible Load Shed Sequencing
- Remote Manual Override



POWER DISTRIBUTION SYSTEM

- Quick and easy way to connect, protect, and program power to emergency vehicle accessories
- Provides 6 dedicated fused circuits configured in 3 load group to power radios, emergency lights, siren, video, MDT, radar, and more
- Each circuit is fuse protected with LED indicator

which identifies the blown fuse position, simplifying trouble shooting

- Master Low Voltage Disconnect protects batteries from extreme discharge

Part #	Description
390-5711-0	Power Distribution System, PDS-100

AC POWER TECHNOLOGY

INDUSTRY LEADING FEATURES

POWER BOOST

- to Extended surge (2 to 5 sec or more) to start and run heavy duty tools and equipment

FUTURE PROOF

- Configurable for virtually all battery types including Lithium Ion
- Enables easy transition to any lithium ion chemistry in the future
- No need to change the inverter/charger, saves on cost and labor

WEATHER PROOF

- From Alaska to Arizona, you are covered for all temperatures
- Delivers full output from -4°F - 104°F
- Operating temperature range -4°F - 140°F

HALT



MCE/Xantrex products go through H.A.L.T. (Highly Accelerated Life Testing), which is an extremely effective product evaluation method that our engineers use to test the robustness of each electronic / mechanical design.

Products are subjected to extreme thermal and mechanical stresses which allows us to identify and correct any subtle design issues early in the product development stage.

This results in improved reliability and performance.



TRUE SINE WAVE SOLUTION (600 W TO 6000 W) FOR ANY TRUCKING APPLICATION



FREEDOM X/XC



FREEDOM SW



PROWATT SW

ABOUT MISSION CRITICAL ELECTRONICS

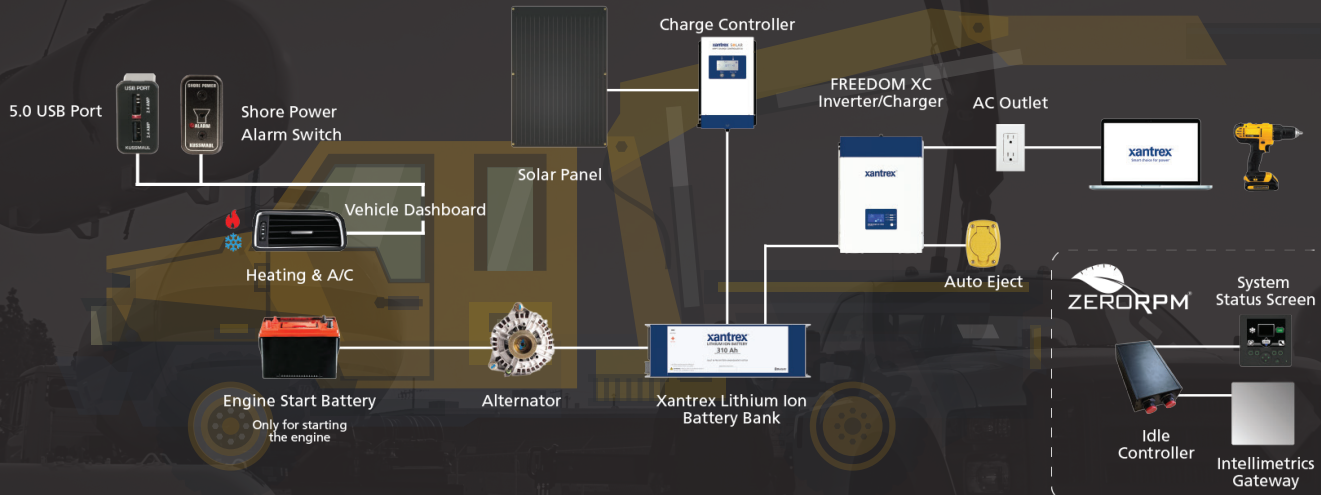
Mission Critical Electronics (MCE) is parent of Xantrex and many other industry leading brands such as Kussmaul Electronics, ZeroRPM, Newmar Power, ASEA Power Systems, Power Products, Purkeys, and American Battery Charging. Headquartered in Huntington Beach, California, MCE is a leader in the development of innovative solutions for power conversion, energy storage, power generation and shore power connectivity for a wide variety of applications in vehicle, marine, industrial and network markets. MCE takes great pride in translating its customers' needs into the highest quality products and solutions available in the markets it serves. MCE delivers its products and solutions with an unmatched level of responsiveness.

MCE serves its customers in North America through 9 offices and a 3rd party warehousing facility. MCE also maintains manufacturing facilities in the US and employs over 300 people. MCE continues to invest in advanced and innovative technologies for electrification of power systems in boats and vehicles.

The introduction of FREEDOM eGEN, ZeroRPM and SAFEX power systems are a testament to MCE's commitment of offering clean, green, environmentally friendly power solutions for both recreational and commercial applications.

MCE offers a complete suite of AC and DC power solutions including energy storage and renewable energy source for vehicle and marine applications.

WORK TRUCK



THE POWER OF ONE

COMPLETE AC/DC POWER SOLUTION FROM ONE MANUFACTURER



MCE VEHICLE POWER



PURKEYS

xantrex™



CUSTOMER SATISFACTION IS OUR #1 PRIORITY

Xantrex Authorized Service Centers repair out-of-warranty and non-warrantable products. Xantrex does not sell parts and components directly to the end user. For out-of-warranty repairs and replacement parts and components, please contact nearest Xantrex ASC from the list below.

WEST COAST

Anchor Marine Electric LTD
780 Spruce Ave
Victoria, BC, V8T 5A5
250.386.8375

ASE Supply
7710 NE 17th Ave
Portland, OR, 97211
503.288.0100

Biobenefit Energy
3368 California St
Costa Mesa, CA, 92626
714.809.4003

JJ RV Service
8758 Longs Peak Cir
Windsor, CO, 80550
877.516.4023

Mark Snyder Electric
H-5840 Gibbons Dr
Carmichael, CA, 95608
619.992.5932

Mark Snyder Electric
200-12900 Brook Printer Plc
Poway, CA, 92064
619.992.5932

One Stop Custom Shop
6923 Wyoming Lane
Col. Springs, CO 80923
719.495.2740

Pacific Yacht Systems
1641 Powell St
Vancouver, BC, V5L 1H5
604.284.5171

Renewable Energy Systems
1698 Airport Way
Fairbanks, AK, 99701
907.451.8717

S3 Maritime
200-2360 W. Commodore Way
Seattle, WA, 98199
206.420.4932

MIDWEST

Advanced Solar
474 W. Levi Lee Rd
Warsaw, IN 46582
574.227.2801

Mark Snyder Electric
10310 Golden Arrow Dr
Hutchinson, KS, 67502
619.992.5932 Option 2

SOUTH

eMarine Systems
3-2821 SW 23rd Terrace
Ft. Lauderdale, FL, 33312
954.581.2505

Field Technical Services
305-6804 E. Hwy 6 South
Houston, TX, 77083
281.561.7149

Inverter Sales and Service
102 SCT Dr
White House, TN 37188
615.285.0611

Jaytron Marine Electronics
2635 Manatee Ave
East Bradenton, FL, 34208
941.748.1941

Mark Snyder Electric
751 N. Monterey, Suite 112
Gilbert, AZ 85233
858.748.4612, Ext 102

National Indoor RV Service 1, LLC
498 E. State Hwy 121
Lewisville, TX, 75057
469.277.1330

EAST COAST

BC&C, LLC
252-B Tyson Dr
Winchester, VA, 22603
540.662.7796

Brewer Pilots Point Marina
63 Pilots Point Dr
Westbrook, CT 06498
860.399.7906

IDS Energie
3680 Thibeau Blvd
Trois-Rivieres, PQ, G8W 2H5
819.373.5978

LES CONTRÔLES VÉHICULAIRES PROTEK
1353, rue Belgrand
Laval, QC H7E 5E7
514.360.6367

Tekris Power Electronics
1675 Hwy 34
Farmingdale, NJ 07727
732.938.4996

Voyager Marine
75 Eastern Avenue
Essex, MA, 01929
978.768.7260

W.E. Enterprises
3090 Jarrow Ave
Mississauga, ON, L4X 2C7
905.629.1424