

# POWER SOLUTIONS FOR GLOBAL APPLICATIONS

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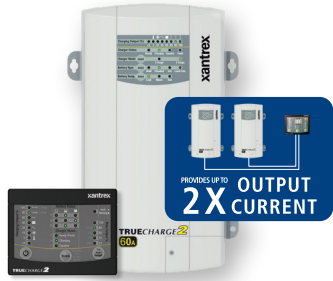
CARAVANS/RVs  
BOATS  
TRUCKS  
WORK VEHICLES  
SPECIALTY VEHICLES  
MILITARY VEHICLES

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INVERTERS  
INVERTER/CHARGERS  
BATTERY CHARGERS  
SOLAR

SMART  
CHOICE  
FOR  
POWER<sup>TM</sup>

# BATTERY CHARGERS



## TRUECHARGE<sup>2</sup>

- 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** 10 A 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.  
\* Doesn't apply to TRUECHARGE2 12 Vdc / 10 A charger.

Models	Part Number	Output Voltage	Power Output	Battery Banks	Remote Panel	Parallel Stacking
TRUECHARGE 10	804-0100	12 Vdc	10 A	One	No	No
TRUECHARGE2 10	804-1210			Two		
TRUECHARGE2 20	804-1220-02		20 A	Three	Optional	Yes
TRUECHARGE2 40	804-1240-02		40 A			
TRUECHARGE2 60	804-1260-02	60 A				
TRUECHARGE2 10	804-2410	24 Vdc	10 A			
TRUECHARGE2 20	804-2420		20 A			
TRUECHARGE2 30	804-2430		30 A			

Decription	Part Number	Product Compatibility
TRUECHARGE2 Remote Panel	808-8040-01	TRUECHARGE2 (part # 804-1220-02, 804-1240-02, 804-1260-02, 804-2410, 804-2420, 804-2430)
Battery Temperature Sensor	808-0232-01	TRUECHARGE2 (all applicable models)

TRUECharge2 Remote Panel allows you to monitor and control battery charger performance from a remote location, including features not accessible from the charger's onboard display & enables the parallel stacking feature of the TRUECharge2 Battery Chargers



## XPLORE 120/12

- Charges up-to 6 battery banks simultaneously
- Charges batteries of multiple chemistries - example lithium ion house bank and lead acid engine battery
- NMEA 2000 connectivity, allows for real-time monitoring and configuration via multi-functional displays by leading marine multiplex manufacturers.
- Xantrex app connectivity allows for real-time monitoring and configuration via the Xantrex mobile app using the Xantrex BLE module.
- Power Share automatically reduces charging output to prevent nuisance tripping of the AC input breaker.
- Quiet mode, storage mode

Models	Part Number	Output Voltage	Power Output	Battery Banks	Remote Panel	Parallel Stacking
XPLORE 120/12	819-0120-12	12 Vdc	120 A	Six	Bluetooth App, NMEA 2000 Connector	Yes

# POWER INVERTERS



## FREEDOM X 2000 230V

- 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)



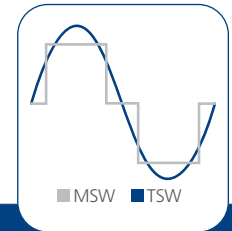
## PROwatt SW

- Cost-effective, true sine-wave power solution
- Ignition lockout helps to minimize battery drain by disabling the inverter when the ignition is turned off
- Built-in digital display for DC input voltage and AC output power
- Optional Accessories: Remote On/Off Panel with 25' Cable (808-9001) and 50' Remote Cable (31-6262-00)



## PROsine

- High performance, true sine wave inverter
- Ideal for handling both heavy duty and sensitive loads
- Available in Schuko or hardwire with transfer relay options
- Optional Accessories: Remote Interface Panel (808-1800)



### Modified Sine Wave (MSW)

Produce AC power that is sufficient to run most electronics. Some applications such as laser printer, satellite receiver set, induction cooktop and digital clock may not run properly with modified sine wave power, or they may demand true sine wave.

### True Sine Wave (TSW)

Produce AC power that is similar to power from the public utility grid system. True sine wave power operates even the most sensitive and sophisticated electronics.

Models	Part Number		Input Voltage	Max. Continuous Watts	Surge Rating	Transfer Switch	AC Output	
	Schuko	AUS/NZ						
PROwatt SW 700i	806-1206-01	806-1206-02	12V	700 W	1400 W	No	Schuko/Australian	
PROwatt SW 1400i	806-1210-01	806-1210-02		1400 W	2800 W			
PROwatt SW 2000i	806-1220-01	806-1220-02		2000 W	4000 W			
PROsine 1000i	806-1070	NA	12V	1000 W	1500 W*	No	SCHUKO	
PROsine 1000i	806-1074					Yes	Hardwire w/ transfer relay	
PROsine 1800i	806-1870			1800 W	2900 W*	No	SCHUKO	
PROsine 1800i	806-1874					Yes	Hardwire w/ transfer relay	
PROsine 1000i	806-1080			24 V	1000 W	1500 W*	No	SCHUKO
PROsine 1000i	806-1084						Yes	Hardwire w/ transfer relay
PROsine 1800i	806-1880		1800 W		2900 W*	No	SCHUKO	
PROsine 1800i	806-1883					Yes	Hardwire	
PROsine 1800i	806-1884		Yes	Hardwire w/ transfer relay				

\*5 second extended surge.

NOTE for UK Customers: Please contact a Xantrex representative for information on potential custom solutions for PROwatt products.



## XPower

- Compact, portable power solution for recreational, mobile office equipment and other electronics
- Over temperature/over load and low/over voltage shutdown

Models	Part Number		Input Voltage	Max. Continuous Watts	Surge Rating	Transfer Switch	AC Output
	Schuko	AUS/NZ or UK					
XPower 150	851-0162R	Available subject to MOQ	12V	150 W	300 W	No	DC lighter plug
XPower 300	851-0312R			300 W	600 W		DC lighter plug, cable clamps
XPower 500	851-0512R			500 W	1000 W		Cable clamps, hardwire

NOTE for UK Customers: 150W version is 851-0161R (3 pin)

# INVERTER/CHARGERS

HYBRID,  
LITHIUM ION  
COMPATIBLE



## FREEDOM SW

- Generator Assist Mode creates a hybrid power system enabling you to downsize the generator or supplement shore power
- Parallel stacking capability to double the inverter power output
- 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
- Conformal coated circuit boards to protect against humid environments
- Meets CE, E-mark (Europe), RCM (Australia)

Models	Part Number	Input Voltage	Continuous Power	Surge Rating	AC Output	Charger Output	Remote Panel
FREEDOM SW 2524	815-2524-02	24 V	2500 W	4000 W	Hardwire	65 A	Optional (On/Off, Advanced)
FREEDOM SW 3524	815-3524-02		3400 W	6800 W		90 A	

## FREEDOM SW ACCESSORIES

### Automatic Generator Start (809-0915)



### System Control Panel (809-0921)



### FREEDOM SW ComBox (809-0918)



### FREEDOM SW Network Cable Adapter (808-9010)



#### Additional Accessories:

GFCI Option (808-9003)

25' Network Cable (809-0940)

75' Network Cable (809-0942)

Remote Panel (808-9002)

Cable for Series Stacking (808-9005)

Sequence Power Manager (809-0913)

FREEDOM SW Remote Panel Mounting Bracket (XAN-BRFSW)

## STANDALONE ACCESSORIES



### LinkLITE (84-2030-00) and LinkPRO (84-2031-00) Battery Monitors

- Reads battery bank like a fuel gauge
- Selectively display voltage, charge and discharge current, consumed amp hours and remaining percentage of battery capacity
- LinkPRO displays time remaining and can measure up to 9,999 amp-hours
- LinkLITE can measure currents up to 999 amp-hours

Optional Accessories: Connection Kit for LinkLITE & LinkPRO (854-2021-01), Communication Kit for LinkPRO (854-2019-01), Temperature Kit for LinkPRO (854-2022-01)



### Digital echo~charger (82-0123-01)

- 15 A maximum charge current
- Automatically adjusts for 12 V or 24 V battery banks (both battery banks must be the same DC voltage and battery type)
- Automatically switches on/off without affecting the in-house battery bank or over-charging
- Utilizes excess current from the primary charging source



# INVERTER/CHARGERS



LITHIUM ION COMPATIBLE

## FREEDOM XC 2000 230V

- 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
- Dead battery charging down to 0 V
- Extended surge, power share, equalization, power factor correction
- Configurable low battery voltage shutdown
- Built-in 30 A Automatic Transfer Switch
- Configurable charge algorithm

Part Number	Input Voltage	Continuous Power	Surge Rating	AC Output	Charger Output	Remote Panel
817-2080-12	12 V	2000 W	4000 W	Hardwire	80 A	Optional (On/Off, Advanced)



## 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.**

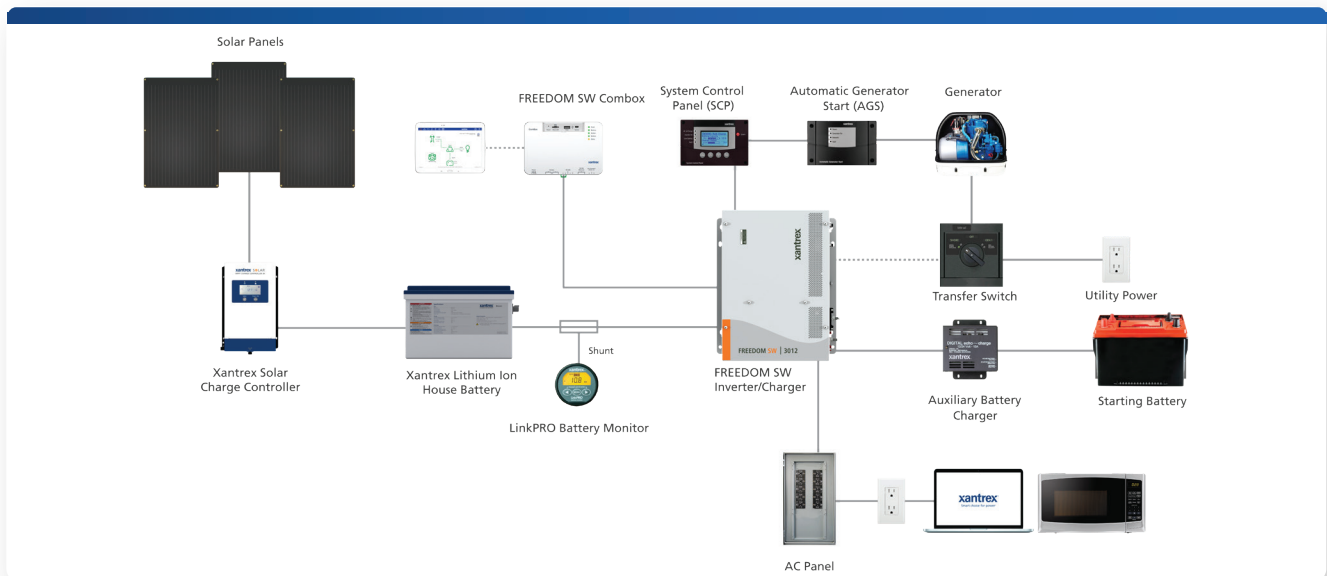
## FXC CONTROL APP



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

# PRODUCT INSTALLATION

Xantrex products provide in-vehicle AC power to boats and RVs, work and utility vehicles, heavy duty trucks and emergency vehicles to operate tools, appliances, lights and other electronic equipment wherever they are needed.



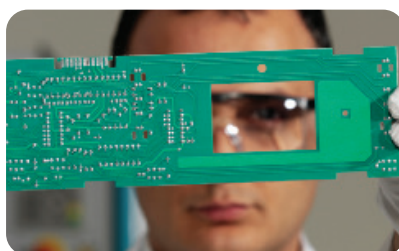


Xantrex, a Mission Critical Electronics brand, is one of the most successful and popular brands of onboard AC power technology. Xantrex products are used in a variety of applications in the RV, marine, military, construction, emergency medical services, bus, work service vehicle and commercial truck markets. Xantrex pioneered the development of power inverters and battery chargers in the early 90s and has since created many category-defining solutions in various markets. Xantrex ensures its products undergo extensive reliability testing and certifies its products to comply with various regulatory standards to meet or exceed the applicable requirements for safety, quality, efficiency and environment. With over 40 years of design, engineering and manufacturing experience, Xantrex power solutions offer an enviable mix of advanced technology and unmatched dependability.



#### H.A.L.T. - A NEW BENCHMARK IN PRODUCT QUALITY

- H.A.L.T. (Highly Accelerated Life Testing) is an extremely effective product evaluation method that our engineers use to test the robustness of each electronic/mechanical design
- In this test, 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



#### STRINGENT REGULATORY STANDARDS

- Xantrex certifies its products to comply with various regulatory testing standards to indicate that its products meet or exceed
- the applicable national and/or international requirements for safety, quality, efficiency and environment

Examples of regulatory marks you will find on Xantrex products:



#### MANUFACTURING EXPERTISE

- Over 35 years of experience in manufacturing onboard AC power products
- World class research, engineering and product development capabilities
- Wide assortment of products in both 120 V and 230 V configuration for global applications
- Proud possession of over 100 innovative, product patents globally



# DETERMINING YOUR BATTERY BANK REQUIREMENTS

The example below will help you to determine the battery bank capacity you need to operate common appliances using a standard 12 V battery system.

Appliance or product	Continous wattage	DC power consumed (watts / 10*)	Appliance run time	Amp hours consumed between charge cycles	Battery bank required (Ah / 0.50**)
Audio system	100 W	10 A	4 Hr	40 Ah	
Coffee maker	1200 W	120 A	1/2 Hr	60 Ah	
Microwave	1000 W	100 A	1/4 Hr	25 Ah	
	2300 W	230 A		125 Ah	250 Ah

The above scenario would result in a 12 V battery bank total system requirement of 250 amp-hours. The battery bank total amp-hours must exceed the total amp-hours required by the system for best performance & battery life

\* Dividing watts by 10 allows for easy mathematics and typical system losses

\*\* Deep cycle batteries should only be discharged no lower than 50% State-of-Charge (SoC)

Note for 24 V battery systems: 125 Ah in a 24 V battery system contains equivalent energy of 250 Ah in a 12 V battery system

## TRUECHARGE<sup>2</sup> 12 V MODELS

Battery Size / Application	Ahr	10 A	20 A	40 A	60 A	80 A	100 A	120 A
		804-1210	804-1220-02	804-1240-02	804-1260-02	*	*	*
Group 24	75	●	●	^				
Group 27	90	●	●	^	^			
Group 31	105	●	●	^	^			
4 D	160		●	●	^	^		
8 D	220			●	●	^	^	^
Dual 6 V golf cart	225			●	●	^	^	^
Triple group 27	270			●	●	^	^	^
Dual 8 D	440				●	●	●	^
Triple 8 D	660					●	●	●

\* Output achieved by stacking two TRUECharge2 units in parallel. Note: 10 A / 12 V model is not equipped with parallel stacking feature  
 ^ These charts are a general guideline, consult battery manufacturer specifications and your technician for appropriate sizing of battery charger to your battery bank/type. Mixing battery types is not recommended.

## TRUECHARGE<sup>2</sup> 24 V MODELS

Battery Size / Application	Ahr	10 A	20 A	30 A	40 A	50 A	60 A
		804-2410	804-2420	804-2430	*	*	*
Dual group U1	35	●	^				
Dual group 24	75	●	●	^			
Dual group 27	90	●	●	^	^	^	^
Dual group 31	105	●	●	●	^	^	^
Dual 4 D	160		●	●	●	^	^
Dual 8 D	220			●	●	●	●
Four 6 V golf cart	225			●	●	●	●
Four 4 D	320				●	●	●
Four 8 D	440					●	●

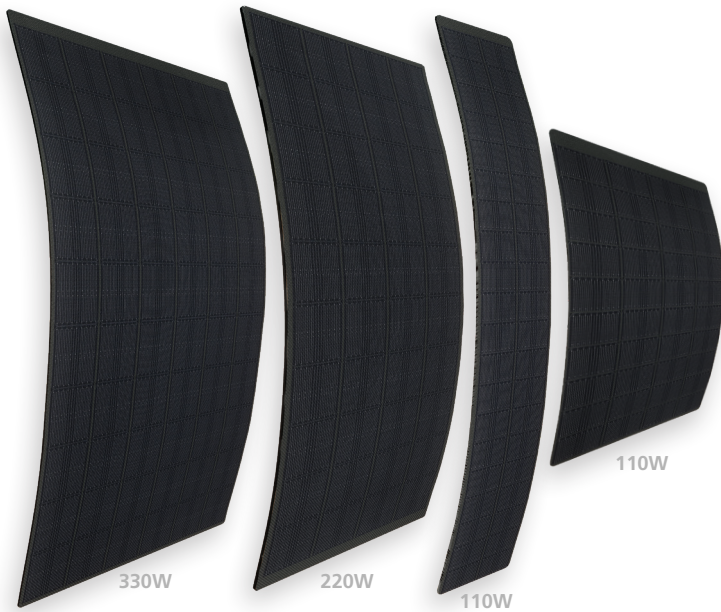
\* Output achieved by stacking two TRUECharge2 units in parallel  
 ^ These charts are a general guideline, consult battery manufacturer specifications and your technician for appropriate sizing of battery charger to your battery bank/type. Mixing battery types is not recommended

# xantrex™ SOLAR MAX

- State-of-the-Art Mesh-Grid Technology
- Enhanced Performance in Low Light Conditions
- Highly Durable in Extreme Weather Conditions
- Peel-and-Stick Drill-less Mounting Installation

Available in:

**110W, 220W, 330W**



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

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

Part #	Description
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

Ideal for installation on curved surfaces

## CHARGE CONTROLLERS

- New compact, flush mount 30A PWM charge controller
- New 2 bank, fan-less convection cooled, 30A MPPT charge controller charges all profiles including lithium ion
- Industrial C series charge controllers ideal for rugged use

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)





# xantrex™ SOLAR

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 PANELS

Rigid and flex panel options

Xantrex offers durable and high efficiency glass panels that are ideal for any trucking application. Also offered is a semi flexible panel that is lightweight, durable and easy to install. Note that Xantrex panels use MC4 type connections and are moisture resistant rated for IP65 or IP67. Xantrex offers a variety of optional accessories including mounting hardware and cables to help you complete your solar installation without any hassles.

### OPTIONAL STARTER SOLAR CABLE KIT



- Pre-terminated ferrules to plug into the charge controller terminals
- MC4-type connector to connect to your solar panel
- Pre-terminated battery rings to connect to your battery
- 30A DC blade fuse built into the positive red battery cable

#### SOLAR PANELS

Part #	Description
780-0100	100W Solar Panel
780-0160	160W Solar Panel
781-0110	110W Solar Flex Panel

#### 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 and Battery Cables Kit

# HOW MANY SOLAR PANELS DO YOU NEED?

It really depends on many factors – loads, battery capacity and available roof space. Also, whether you want solar to support your entire electrical system, or just make your battery last longer between cycles. Here's an example of power consumption with both DC and AC loads. AC loads are powered through an inverter.

LOADS	WATTS		QTY		HOURS USAGE/DAY		WATT HOURS		BATTERY BANK VOLTAGE		AMP-HOURS
LAPTOP	50	x	1	x	8	=	400	÷	12	=	33
PHONE CHARGER	5	x	1	x	6	=	30	÷	12	=	2.5
LED TV	70	x	1	x	3	=	210	÷	12	=	17.5
LIGHTS	10	x	4	x	8	=	320	÷	12	=	27
FRIDGE	45	x	1	x	24	=	1080	÷	12	=	90

**LOAD TOTAL: 170**

Note: This is a general guideline on how you may be able to build the right solar solution for your needs. This is just an example and not intended to be an accurate guide for every use case. Please always consult a professional, electrician or certified installer before making any decision on your solar needs. Xantrex does not recommend installing a solar system without consulting a professional.

In the example above, all loads consume about 170 amp-hours per day. Consider the calculation below:

A Xantrex 160 watt panel can produce about 8.34 amps per peak sun hour.\*  
Assuming peak sun hours as 5.5 hours, it will produce about 45.87 amp-hours per day.\*\*

\* panel output would vary depending on type of charge controller used  
\*\* peak sun hours depend on many factors including geography and season

$$\begin{array}{c}
 \text{☀} \\
 \text{5.5 hours of sunlight}
 \end{array}
 \times
 \begin{array}{c}
 \mathbf{8.34} \\
 \text{amps}
 \end{array}
 =
 \begin{array}{c}
 \mathbf{45.87} \\
 \text{amp hours a day}
 \end{array}
 =
 \begin{array}{c}
 \text{☐} \\
 \mathbf{1} \\
 \text{☐} \\
 \text{160W solar panel}
 \end{array}$$

**1** In this example, the total power consumption is 170 amp hours per day. Add 10% to account for losses and inefficiencies resulting from power conversion which brings the total requirement to  $170 \times 1.1 = 187$ .

**2** Divide 187 by 45.87 to get the number of solar panels needed to support the entire system. In this case you need four 160W solar panels.

$$\begin{array}{c}
 \mathbf{1} \\
 \mathbf{170} \\
 \text{amp hours a day}
 \end{array}
 \times
 \begin{array}{c}
 \mathbf{1.1} \\
 \text{(10\% losses from} \\
 \text{power conversion)}
 \end{array}
 =
 \begin{array}{c}
 \mathbf{187} \\
 \text{total power} \\
 \text{requirement}
 \end{array}
 \quad \bigg| \quad
 \begin{array}{c}
 \mathbf{2} \\
 \mathbf{187} \\
 \text{amp hours a day}
 \end{array}
 \div
 \begin{array}{c}
 \mathbf{45.87} \\
 \text{amp hours a day}
 \end{array}
 =
 \begin{array}{c}
 \text{☐} \text{ ☐} \text{ ☐} \text{ ☐} \\
 \mathbf{4} \\
 \text{☐} \text{ ☐} \text{ ☐} \text{ ☐} \\
 \text{160W solar panels}
 \end{array}$$

If you plan to run a generator or plug in daily, but need the batteries to last longer throughout the day, you could decrease the number of panels to simply support the battery charge cycle.

# DETERMINING THE SIZE OF THE BATTERY BANK

Using the table on the left, estimate how many hours you'll be using each device every day.

We now know that 170 amp hours of power will be needed to run ALL electronics and appliances in the table. Add 10% to account for losses and inefficiencies, which brings the total requirement to:

$$170 \times 1.1 = 187 \text{ Ah}$$

amp hours a day      (10% losses from power conversion)      total power requirement

## TRADITIONAL BATTERY

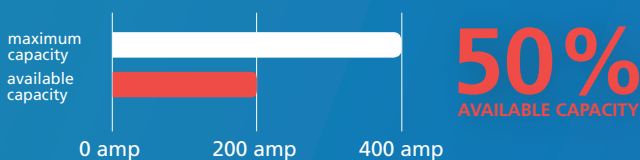
A traditional lead acid battery may be discharged to:

**50%**

In this example, the recommended battery bank size would be:

$$187 \div 0.5 = 374 \text{ Ah}$$

It is ok to overcompensate and have a battery bank that is 400 Ah.



## LITHIUM ION BATTERY

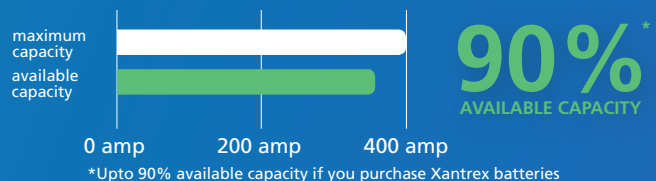
A lithium ion battery may be discharged to:

**20% or 10%** for Xantrex UL 1973 listed batteries

In this example, the recommended battery bank size would be:

$$187 \div 0.8 = 234 \text{ Ah}$$

You may consider installing two 125 Ah Xantrex Lithium Ion Batteries.



Note: This is a general guideline on how you may be able to build a battery bank for your needs. This battery bank example may not be accurate for every use case. Please always consult a professional, electrician or certified installer before making any decision on your battery or solar needs. Xantrex does not recommend installing a solar system without consulting a professional.



# HOW MUCH POWER CAN SOLAR PRODUCE?

	SOLAR SIZE	AMPS*	AMP-HOURS/DAY**	MIN. BATTERY BANK SIZE***	WHAT YOU CAN EXPECT TO RUN
WEEKEND GETAWAY	110W	5.8A	32.0	80Ah	
	160W	8.34A	45.8	90Ah	
	220W	11.6A	63.8	110Ah	
3-4 DAYS GETAWAY	340W	16.68A	83.4	125Ah	
	440W	23.2A	127.6	200Ah	
	680W	33.36A	183.5	245Ah	
OFF-GRID STAY/ WEEKLONG GETAWAY	1320W	66.72A	367.0	440Ah	

WEEKEND GETAWAY

3-4 DAYS GETAWAY

OFF-GRID STAY/  
WEEKLONG GETAWAY

\* These are typical solar panel max. amp ratings based on Standard Test Conditions (STC). Deviations from STC will often result in a reduction from this max. amp rating.  
 \*\* Assuming 5.5 peak sun hours in a day which varies greatly depending on location and geography.  
 \*\*\* Check with the battery manufacturer to identify the optimal C-rate your battery should be charged/discharged in order to maximize the life expectancy of the battery.

Note: For solar systems over 440W, it is recommended to use a MPPT charge controller that is appropriate for your system. Please always consult a professional, electrician or certified installer before making any decision on your solar needs. Xantrex does not recommend installing a solar system without consulting a professional.

# EXPANSION KITS

Number of panels that can be wired 'only in parallel' per 30A PWM charge controller

100W Xantrex Solar Panels



110W Xantrex Solar Max Flex Panels



160W Xantrex Solar Panels



220W Xantrex Solar Max Flex Panels



110W Xantrex Solar Flex Panels



330W Xantrex Solar Max Flex Panels



Note: The above configurations apply when you use a 30A PWM charge controller and connect solar panels in parallel. It is highly recommended you always use the same type of panels and do not mix and match (Connect panels with same power output & voltage in parallel).

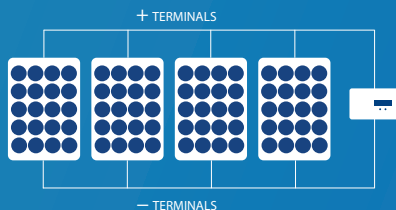
Number of panels that can be wired in series and parallel per 30A MPPT charge controller

Solar Panels	# of panels in series	# of strings in parallel	Total solar array wattage
100W Rigid	3	0	300W
100W Rigid	2	2	400W
160W Rigid	3	0	480W
110W Flex	4	0	440W
110W Flex	2	2	330W
110W Solar Max	3	0	330W
110W Solar Max	2	2	440W
220W Solar Max	2	0	440W
330 W Solar Max	1	0	330W

The maximum solar array wattage is 580W for 12V and 1170W for 24V for our 30A MPPT charge controller

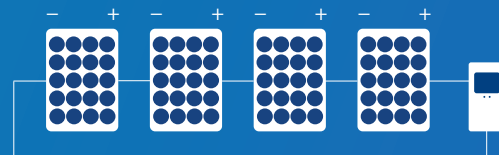
Easily customize and extend your solar system using our expansion kits. All expansion kits include a solar panel, branch connectors and mounting hardware.

## PANELS IN PARALLEL



Ideal for PWM charge controllers, connect all the positive terminals of all the solar panels together and all of the negative terminals of all the solar panels together.

## PANELS IN SERIES



Ideal for MPPT charge controllers, connect the positive terminal of the first solar panel to the negative terminal in the next solar panel.

# XANTREX LITHIUM ION BATTERIES

Designed to work with Xantrex Inverter/Charger and Xantrex Solar



**105Ah**

Group 27 replacement

Parallel stack up to 4 batteries



**125Ah**

Group 31 replacement

Parallel stack up to 4 batteries



**240Ah**

Parallel stack up to 2 batteries

## UL1973 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



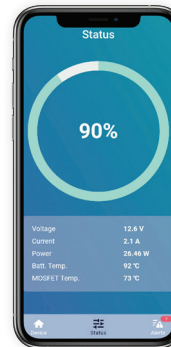
## XANTREX APP

- 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

# BATTERY COMPARISONS

## 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

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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



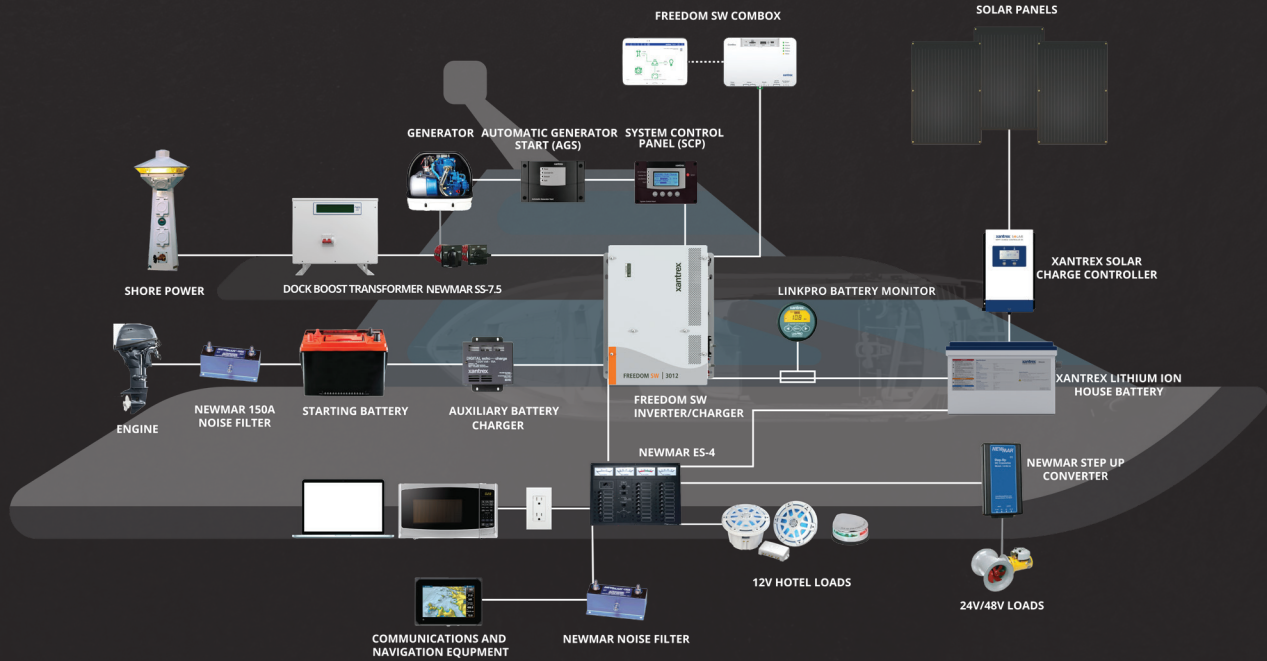


Headquartered in Huntington Beach, California, Mission Critical Electronics provides specialized products for critical systems in a wide variety of applications operating under the leading brands American Battery Charging, ASEA Power Systems, Kussmaul Electronics, Newmar Power, Power Products, Purkeys, Xantrex and ZeroRPM. These brands have been built on the strength of their team and their ability to connect with customers. MCE takes great pride in translating their customers' needs into the highest quality products and solutions available in the markets it serves. MCE delivers those products and solutions with unmatched level of responsiveness.

BOAT

# THE POWER OF ONE

COMPLETE AC/DC POWER SOLUTION FROM ONE MANUFACTURER



HEAVY DUTY TRUCK

