

Battery Chargers



- TRUECHARGE™2 Battery Chargers – Ultra Compact, High Performance Chargers for Worldwide Charging**
- Designed for recreational & commercial applications worldwide, the Truecharge2 battery chargers are versatile enough to be used in a wide variety of conditions & applications. New parallel stacking feature* delivers up-to twice the rated output when used with the optional remote.
- Worldwide Input Voltage Range**
- Automatically senses the power input voltage (90-265 Vac 47-63 Hz, 120 Vac, 230 Vac, 240 Vac nominal)
 - Enables proper delivery of a full three-stage charge as it can charge from less than perfect quality shorepower or generator power
- Energy Efficient, Low Noise Charging**
- Power Factor Corrected charging to effectively use incoming AC power, minimizing current draw and reducing electrical interference
 - Temperature-compensated charging ensures proper charge in the heat of summer and during cold winter storage
- Global Safety & Protection Features**
- Built-in protection against surges and spikes on the AC power line
 - Meets CE/EMC, ABYC, UL1564 & UL1236 with marine supplement
- XC Series Battery Charger (24 V only)**
- Independently controls each battery bank eliminating the problem of under or overcharging batteries
 - Allows charging of 3 different battery chemistries simultaneously

Models	Part number	Output voltage	Power output	Battery banks	Remote panel	Parallel stacking
Truecharge 10	804-0100	12 V	10 A	One	No	No
TRUECHARGE2 10	804-1210	12 V	10 A	Two	No	No
TRUECHARGE2 20	804-1220-02	12 V	20 A	Three	Optional	Yes
TRUECHARGE2 40	804-1240-02	12 V	40 A	Three	Optional	Yes
TRUECHARGE2 60	804-1260	12 V	60 A	Three	Optional (Digital)	No
XC2524	804-2524	24 V	25 A	Three	Included (Digital)	No

☐ 12 Volt ☐ 24 Volt * Applies to TRUECHARGE2 20 and 40. Does NOT apply to TRUECHARGE2 10 and 60.

ACCESSORIES



- TRUECHARGE™2 Remote Panel**
- Designed for use with the TRUECHARGE2 Battery Chargers
 - Displays all system configuration information as well as battery status for up to three battery banks



- LinkPRO and LinkLITE Battery Monitors**
- Displays % state of charge, voltage, charge and discharge current and consumed amp hours
 - LinkPRO also displays the time remaining of your battery bank

Description	Part number	Product compatibility
TRUECHARGE2 Remote Panel	808-8040-01	TRUECHARGE2 20 A (part # 804-1220-02) and 40 A (part #804-1240-02)
TRUECHARGE2 Remote Panel	808-8040-00	TRUECHARGE2 60 A (part # 804-1260)
LinkLITE	84-2030-00	Stand alone
LinkPRO	84-2031-00	Stand alone
Temperature Sensor - 32 ft (10 m)	854-2022-01	LinkPRO
Communication Kit	854-2019-01	LinkPRO
Connection Kit - 50 ft (15 m)	854-2021-01	LinkPRO & LinkLITE
Alternator Regulator (12V)	84-2006-01	Stand alone
Echo Charge Auxiliary Charger	82-0123-01	Stand alone
Battery Fuse & Holder 200 A	TFB200	All products
Battery Fuse & Holder 300 A	TFB300	All products
Battery Fuse & Holder 400 A	TFB400	All products
Battery Temp Sensor	808-0232-01	XC, TRUECHARGE2 (20 A, 40 A and 60 A)

Inverter/Chargers



- Freedom SW Inverter/Chargers**
- Value priced, true sine wave inverter/chargers
 - Multi-stage, temperature compensated, power factor corrected charging uses less AC input power than traditional chargers
 - High surge capability for demanding loads
 - Meets FCC Class B & UL458
 - The base 2000 W model features a 100 A charger and is available with a GFCI option
 - The feature rich 3000 W model is configurable for customized applications, has dual input/output AC interface and is compatible with the System Control Panel and the Automatic Generator Start



- Freedom 458 Inverter/Chargers**
- High-powered modified sine wave inverter/chargers available in a variety of power levels



- Freedom HF Inverter/Chargers**
- Compact and light weight modified sine wave inverter/chargers designed to run small appliances and other household electronics
 - Built-in automatic transfer switch and a detachable digital remote control panel
 - Designed to be hardwired using a terminal strip, or by connecting AC through GFCI receptacles
 - Meets UL458



- PROsine™ Inverter/Chargers**
- True sine-wave power to operate sensitive electronics and appliances
 - Equalization modes to condition batteries for longer life
 - Series stackability allows two units to power 120/240 VAC applications (PROsine 2.0 only)
 - Meets UL 458

Models	Part number	Input voltage	Max. cont. watts	Surge rating	AC output	Charger output	Remote panel
Freedom SW 2000	815-2000	12 V	2000 W	4000 W	GFCI and/or Hardwire	100 A	Included (On/Off)
Freedom SW 3000	815-3000	12 V	3000 W	6000 W	Hardwire	150 A	Included (On/Off)
PROsine 2.0	805-2020	12 V	2000 W	4500 W	GFCI and/or Hardwire	100 A	Included (Digital)
Freedom HW 1000	806-1055	12 V	1000 W	2000 W	Hardwire	55 A	Included (Digital)
Freedom HF 1000	806-1020	12 V	1000 W	2000 W	GFCI and/or Hardwire	20 A	Included (Digital)
Freedom HF 1800	806-1840	12 V	1800 W	3600 W	GFCI and/or Hardwire	40 A	Included (Digital)
RV 2012 GS	RV2012GS	12 V	2000 W	5500 W	Hardwire	100 A	Optional (Digital)
RV 2012 GS - 15/20 A circuit breaker	RV2012GS-1520B	12 V	2000 W	5500 W	Hardwire	100 A	Optional (Digital)
RV 2012 GS - 20 A circuit breaker	RV2012GS-20B	12 V	2000 W	5500 W	Hardwire	100 A	Optional (Digital)
Freedom 458-20 (Single Input/Single Output)	81-2010-12	12 V	2000 W	6000 W	Hardwire	100 A	Optional (Digital or LED)
Freedom 458-20 (Single Input/Dual Output) ¹	81-2021-12	12 V	2000 W	6000 W	Hardwire	100 A	Optional (Digital or LED)
Freedom 458-20 (Single Input/Dual Output) ²	81-2022-12	12 V	2000 W	6000 W	Hardwire	100 A	Optional (Digital or LED)
Freedom 458-25 (Dual input/Dual output)	81-2530-12	12 V	2500 W	7500 W	Hardwire	130 A	Optional (Digital or LED)
RV 2512 GS	RV2512GS	12 V	2500 W	6000 W	Hardwire	120 A	Optional (Digital)
Freedom 458-25 (Single input/Single output)	81-3010-12	12 V	3000 W	9000 W	Hardwire	140 A	Optional (Digital or LED)
RV 3012 GS	RV3012GS	12 V	3000 W	6500 W	Hardwire	140 A	Optional (Digital)
PROsine 3.0	805-3031	24 V	3000 W	4000 W	Hardwire	60 A	Included (Digital)

☐ True Sine Wave Inverter/Chargers ☐ Modified Sine Wave Inverter/Chargers ☐ 12 Volt ☐ 24 Volt ¹ with 20/20 A circuit breaker; ² with 20/15 A circuit breaker

ACCESSORIES



- Freedom SW System Control Panel (SCP)**
- Displays all system configuration and diagnostic information in one central location
 - Provides basic controls for other devices connected to the network



- Freedom SW Automatic Generator Start (AGS)**
- Xanbus Enabled device that can automatically activate a generator
 - User programmable quiet times and generator start & stop settings

Description	Part number	Product compatibility
Automatic Generator Start (AGS)	84-2064-00	Stand alone
Freedom SW Automatic Generator Start	809-0915	Freedom SW 3000
Battery Temp Sensor	808-0232-01	Freedom SW 2000
Battery Temp Sensor	809-0946	Freedom SW 3000
Freedom SW System Control Panel	809-0910	Freedom SW 3000
Freedom Basic Remote	84-2056-01	Freedom 458
RC/GS Remote Panel	RC/GS	RV Series GS
Freedom SW GFCI Option	808-9003	Freedom SW 2000
12V Ignition Lockout Switch	82-0122-12	Freedom 458

Inverters



- PROwatt™ SW Inverters**
- An affordable true sine wave solution for both heavy duty and sensitive loads
 - Dual GFCI AC receptacles and USB port
 - Conformal coated circuit boards
 - Meets UL458



- PROsine™ Inverters**
- High performance true sine wave inverters
 - Built-in AC transfer switch, detachable remote panel
 - Meets UL458



- XS 400 Inverter**
- A moderate power, true sine wave inverter
 - Built-in transfer switch, dual AC outlets, AC hardwire connections
 - Meets UL458



- XM Inverters**
- Compact but powerful modified sine wave inverters
 - Designed to be hard-wired using a terminal strip or by connecting AC through GFCI receptacles
 - Conformal coated circuit boards
 - Built-in AC transfer switch, detachable remote panel
 - Meets UL 458



- Prowatt™ Inverters**
- 24-volt modified sine wave inverters
 - Designed to operate a wide variety of electronic devices
 - Available in 250 W and 800 W models

Inverters



- XPower™ Inverters – High Power**
- Modified sine wave inverters for RVs, boats & Trucks
 - Ideal for users who may need to power multiple loads such as appliances, power tools and other onboard electronics at the same time
 - Remote On/Off switch included
 - 5000-watt model has four GFCI AC receptacles, each equipped with a 20-amp breaker
 - Meets UL458



- XPower™ Inverters - Portable**
- Converts vehicle battery's 12-volt DC power into 120-volt AC power to operate entertainment systems, handheld games, TVs, computers, printers and more
 - The 175-watt inverter is a plug-n-play portable inverter
 - The 400 W digital inverter features an interactive LED display which provides instant feedback on input voltage and output power



- XPower™ OEM 450 Inverter**
- Compact, modified sine wave inverter with 450 W output
 - Designed specifically for OEM applications
 - High surge capacity for products that require more power to start
 - Meets UL458



- 230 V / 50 Hz Inverters**
- Our popular pure sine wave inverters, the PROwatt SW and PROsine, are also available in 230 V / 50 Hz version for international applications
 - Available in 12 V and 24 V models
 - Choose from Schuko or hardwire with transfer relay options
 - CE marked for EMC & low voltage directives

Models	Part number	Input voltage	Max. continuous watts	Surge rating	Transfer switch	AC output	Remote panel
XS400	806-0400	12V	400 W	800 W	Yes	GFCI and/or Hardwire	Included (On/Off)
PROwatt SW 600	806-1206	12V	540 W	1200 W	No	GFCI	Optional (On/Off)
PROwatt SW 1000	806-1210	12V	900 W	2000 W	No	GFCI	Optional (On/Off)
PROsine 1000	806-1000	12V	1000 W	1500 W	No	GFCI	Included (Digital)
PROsine 1000i	806-1002	12 V	1000 W	1500 W	Yes	Hardwire w/ transfer relay	Included (Digital)
PROsine 1800	806-1800	12V	1800 W	2900 W	No	GFCI	Included (Digital)
PROsine 1800i	806-1802	12V	1800 W	2900 W	Yes	Hardwire w/ transfer relay	Included (Digital)
PROwatt SW 2000	806-1220	12V	1800 W	3000 W	No	GFCI	Optional (On/Off)
XM 1000	806-1010	12V	1000 W	2000 W	Yes	GFCI and/or Hardwire	Included (Digital)
XM 1800	806-1810	12V	1800 W	3600 W	Yes	GFCI and/or Hardwire	Included (Digital)
Prowatt 250	801-3255	24 V	250 W	500 W	No	AC Outlet	No
Prowatt 800	801-3853	24 V	800 W	2000 W	No	GFCI and/or Hardwire	Optional (On/Off)
PROsine 1800	806-1850	24 V	1800 W	2900 W	No	GFCI	Included (Digital)
PROsine 1800i	806-1852	24 V	1800 W	2900 W	Yes	Hardwire w/ transfer relay	Included (Digital)

☐ True Sine Wave Inverters ☐ Modified Sine Wave Inverters ☐ 12 Volt ☐ 24 Volt

ACCESSORIES



- PROwatt™ Inline Transfer Relay**
- 15A Transfer Relay provides switching between shorepower and inverter AC source
 - Equipped with a power plug for convenient connection to the inverter GFCI and hardwire cords for AC input and output interface
 - Meets UL458 when used with the PROwatt SW inverters



- PROwatt Remote Panel**
- Provides the convenience of a simple on/off remote function to the user
 - Includes a 25' remote cable
 - Compatible with the PROwatt SW 120 V and 230 V models

Description	Part number	Product compatibility
Remote Panel Interface Kit	808-1800	PROsine 1000 & 1800
S400 Remote Switch	808-2400	XS400
Remote Panel	808-9001	PROwatt SW
Transfer Relay	808-0915	PROwatt SW

230 V MODELS

Models	Part number	Input voltage	Max. continuous watts	Surge rating	Transfer switch	AC output	Remote panel
PROwatt SW 700i	806-1206-01	12 V	700 W	1400 W	No	SCHUKO	Optional (On/Off)
PROsine 1000i	806-1070	12 V	1000 W	1500 W	No	SCHUKO	Included (Digital)
PROsine 1000i	806-1074	12 V	1000 W	1500 W	Yes	Hardwire w/ transfer relay	Included (Digital)
PROwatt SW 1400i	806-1210-01	12 V	1400 W	2800 W	No	SCHUKO	Optional (On/Off)
PROsine 1800i	806-1870	12 V	1800 W	2900 W	No	SCHUKO	Included (Digital)
PROsine 1800i	806-1874	12 V	1800 W	2900 W	Yes	Hardwire w/ transfer relay	Included (Digital)
PROwatt SW 2000i	806-1220-01	12 V	2000 W	4000 W	No	SCHUKO	Optional (On/Off)
PROsine 1000i	806-1080	24 V	1000 W	1500 W	No	SCHUKO	Included (Digital)
PROsine 1000i	806-1084	24 V	1000 W	1500 W	Yes	Hardwire w/ transfer relay	Included (Digital)
PROsine 1800i	806-1880	24 V	1800 W	2900 W	No	SCHUKO	Included (Digital)
PROsine 1800i	806-1884	24 V	1800 W	2900 W	Yes	Hardwire w/ transfer relay	Included (Digital)

☐ True Sine Wave Inverters ☐ Modified Sine Wave Inverters ☐ 12 Volt ☐ 24 Volt

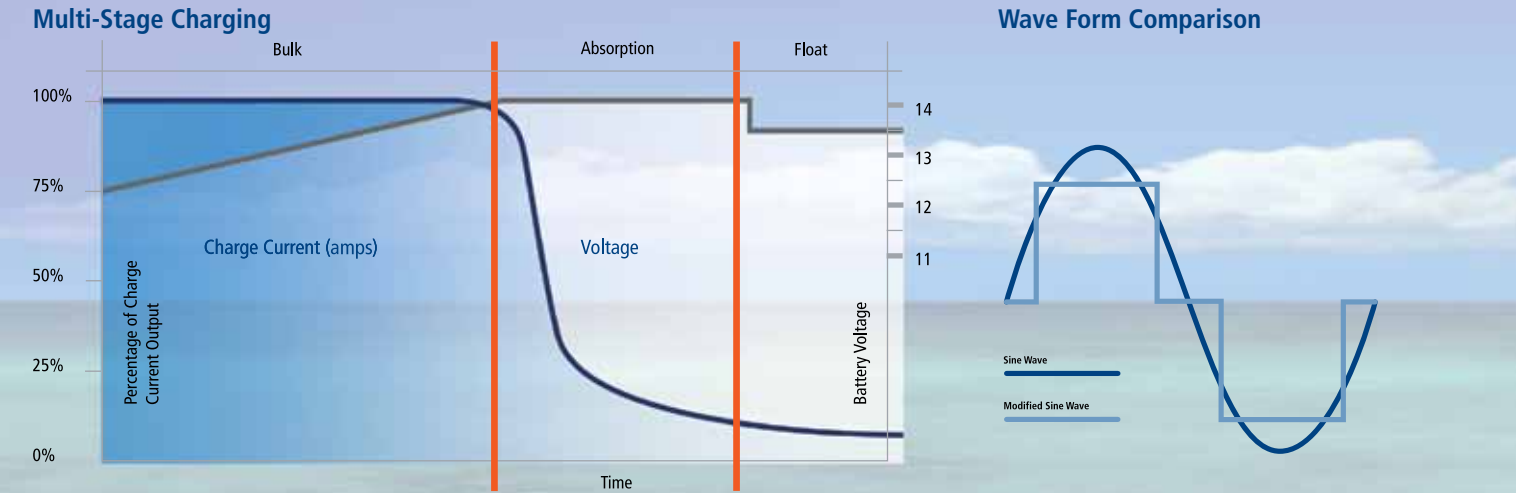
POWERPACKS



- Ideal mobile companion during power outages, weather emergencies and outdoor activities
- Sealed, non-spillable AGM battery
- Recharge at home or in your vehicle
- Available in two models: 400 W (part # 852-1900) and 1500 W (part # 802-1500)



NOTE: Specifications subject to change without notice. Actual product may look different than the image shown in this catalog.



RV Power Solutions



INVERTERS INVERTER/CHARGERS BATTERY CHARGERS ACCESSORIES



Battery Charger FAQs

Q - What are the benefits of Multi-Stage Battery Charging?
A - Advanced multi-stage battery chargers ensure that batteries receive optimum charging, with the delivery of an accurate three-stage charge cycle. Three-stage charging results in batteries charging faster and more effectively than with a regular charger. This maximizes the amount of time that full AC power is available to the modern, electrically dependant vessel or vehicle, and minimizes generator runtime.

Q - What are the advantages of Power Factor Corrected Charging (PFC)?
A - A charger's power factor rating can be explained as its ability to effectively use incoming AC power. With less incoming AC power required by the charger to operate at its peak efficiency, there is more available AC power for a microwave, TV and other AC loads on the vessel or vehicle.

Q - What type of batteries should I use?
A - Xantrex recommends using only high-quality deep-cycle batteries for inverter applications. Deep-cycle batteries are designed specifically for a deep discharge and a rapid recharge. Do not use starting batteries for inverter applications.

Inverter FAQs

Q - What inverter size do I need?
A - Choosing the right inverter size depends on the power requirements of the electronics you expect to operate at any given time. You should consider both the continuous and surge power rating of your electronic device or appliance.

Example: If you are going to operate 2 devices at once, add up the total wattage of both devices then add at least 50% more to account for peaks or spikes in the power draw.
 (1) Coffee Maker 1000 watts
 (2) Portable Lights 200 watts
 Recommended size of inverter:
 1200 watts (1000 watts + 200 watts)
 + 600 watts (0.50 X 1200 watts) = 1800 watts

Q - What is the difference between sine wave and modified sine wave inverters?
A - True Sine Wave Inverters produce AC power that is similar to power available from the public utility grid system. They are more expensive than comparable modified sine wave inverters but they produce quality output that operates even the most sensitive and sophisticated electronics. True sine wave should be your first choice. Modified Sine Wave Inverters cost less but produce AC power that is sufficient to run most electronics. Some applications such as laser printer, fax machine, satellite receiver and plasma television set may not run properly with modified sine wave power, or they may demand True sine wave.

Q - Do I need to install my inverter near my batteries?
A - Ideally an inverter should be installed within 10 feet of the battery bank. If you increase this distance, you will need to use thicker DC cables to compensate for a drop in voltage and to avoid increasing DC ripple (noise).

Q - Can I install my inverter/charger in a gasoline engine compartment?
A - Currently Xantrex inverter/chargers are not ignition protected and therefore should not be installed in a gasoline engine compartment.

Q - What type of environmental conditions must I consider when installing an inverter/charger?
A - Most Xantrex inverter/chargers must be installed in a dry, well-ventilated compartment. While the units are designed to withstand corrosion from salt and air, they are not splash-proof. The units also require a flow of fresh air to operate properly.

Q - What is automatic AC transfer switching?
A - All Xantrex inverter/chargers incorporate an automatic transfer switch. This switch senses when outside AC power is present and transfers loads from the inverter to the source of incoming power (shore or generator). This switch also allows the charger to come on automatically when connected to incoming AC power. Please note that an inverter/charger can only invert or charge, but cannot do both at the same time.

Q - Can I power my computer with an inverter?
A - Both true sine wave and modified sine wave inverter output will operate a computer. However, some monitors and laser printers can only be powered by true sine wave output.

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 design
- In this test, products are subjected to extreme thermal and mechanical conditions to accurately predict how, when and where product degradation may occur and its anticipated life span
- Allows us to refine the design early in the development cycle to improve 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 25 years of experience in manufacturing onboard power products
- World class research, engineering and product development capabilities
- One of the widest assortments of advanced onboard power products
- Proud possession of over 100 innovative, product patents globally

ONLINE KNOWLEDGE BANK

Check out our newly designed website (www.xantrex.com) to explore different types of power solutions, compare products, download technical documents or access our vast repository of FAQs and educational documents

FOLLOW US:



Xantrex DC to AC power inverters and inverter/charger combination units silently convert stored battery power into clean AC power to operate onboard appliances, lights, tools and other electronic equipment whenever they are needed. This allows RVers to enjoy the comforts of home without relying on shore power or noisy generator. Inverting power from a battery is a quiet and environmentally-friendly alternative to other power sources such as a generator. Xantrex manufactures products for all types of RV applications.

The following illustration shows the Xantrex Freedom SW System (Inverter/Charger, System Control Panel and Automatic Generator Start) along with other important components in a RV's electrical system.

The length of time the inverter/charger can supply AC power depends on the size of the battery bank and the number of loads drawing power.

In this example, the inverter/charger recharges the battery banks by converting a portion of incoming shore power or utility power to DC power. The rest of the incoming AC power is passed on to loads connected to electrical circuits powered by the inverter.

When shore power is disconnected, an internal transfer switch automatically switches the inverter/charger from shore power / charge mode to invert mode, providing AC power from the battery banks to the connected loads.

