Battery Chargers

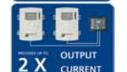


TRUECHARGE™2 Battery Chargers – Ultra Compact, High Performance Chargers for Worldwide Charging

Designed for commercial and marine applications worldwide, the Truecharge2 battery chargers are versatile enough to be used in a wide variety of conditions and applications. New parallel stacking feature* delivers 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

M	lodels	Part number	Output voltage	Power output	Battery banks	Remote panel	Parallel stacking
Tr	uecharge 10	804-0100	12 V	10 A	One	No	No
TI	RUECHARGE2 10	804-1210	12 V	10 A	Two	No	No
TI	RUECHARGE2 20	804-1220-02	12 V	20 A	Three	Optional	Yes
TI	RUECHARGE2 40	804-1240-02	12 V	40 A	Three	Optional	Yes
TI	RUECHARGE2 60	804-1260	12 V	60 A	Three	Optional	No
X	C2524	804-2524	24 V	25 A	Three	Included (Digital)	No

* Applies to TRUECHARGE2 20 and 40. Does NOT apply to TRUECHARGE2 10 and 60.

ACCESSORIES

12 Volt 24 Volt



TRUECHARGE™2 Remote Panel

- · Designed for use with the **TRUE**CHARGE2 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 **Link**PRO 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)
Link <i>LITE</i>	84-2030-00	Stand alone
Link <i>PRO</i>	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

corrected charging

- · Value priced, true sine wave inverter/chargers · Multi-stage, temperature compensated, power factor
- · High surge capability for demanding loads
- · Meets FCC Class B & UL458 with marine supplement 2000 W model 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



PROsine™ Inverter/Chargers

· True sine-wave power to operate sensitive electronics Series stackability allows two units to power 120/240 VAC applications (PROsine 2.0 only)



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 & KKK-A-1822**

Freedom HW Inverter/Charger

- · Powerful inverter/charger in a compact footprint designed for OEM applications
- · Built-in transfer switch & detachable remote control
- · Meets UL458 & KKK-A-1822

Models	Part number	Input voltage	Max. continuous 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)
Freedom 458-20	81-2010-12	12 V	2000 W	6000 W	Hardwire	100 A	Optional (Digital or LED)
Freedom 458-25	81-2530-12	12 V	2500 W	7500 W	Hardwire	130 A	Optional (Digital or LED)
Freedom 458-30	81-3010-12	12 V	3000 W	9000 W	Hardwire	130 A	Optional (Digital or LED)
PROsine 3.0	805-3031	24 V	3000 W	4000 W	Hardwire	60 A	Included (Digital)

*GFCI option, part# 808-9003 sold separately True Sine Wave Inverter/Chargers Modified Sine Wave Inverter/Chargers 12 Volt 24 Volt **1800 W model meets KKK-A-1822

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
- · Compatible with the Freedom SW 3000 model only



Freedom SW Automatic Generator Start (AGS) Xanbus Enabled device that can automatically activate a generator

- · User programmable quiet times and generator start
- Designed for use in conjunction with the SCP and the Freedom SW 3000 Inverter/Charger

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
Freedom SW GFCI Option	808-9003	Freedom SW 2000
12V Ignition Lockout Switch	82-0122-12	Freedom 458
12V Ignition Lockout Switch	808-0912	Freedom HW / Freedom HF

Inverters

800 W

1200 W

2000 W

1500 W

1500 W

2900 W

2900 W

3000 W

3600 W

2000 W

2900 W

2900 W

PROsine 1000 & 1800

XS400

PROwatt SW

PROwatt SW

500 W

Yes

- · 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 & FCC, Class A



PROsine[™] Inverters

· High performance true sine wave inverters · Built-in AC transfer switch, detachable remote panel

400 W

540 W

900 W

1000 W

1000 W

1800 W

1800 W

1000 W

1800 W

250 W

800 W

1800 W

1800 W

Meets UL458 & KKK-A-1822D



PROwatt SW 600 806-1206

PROwatt SW 1000 806-1210

PROwatt SW 2000 806-1220

PROsine 1800 806-1852

PROsine 1000

PROsine 1800

PROsine 1800

XM 1000

XM 1800

Prowatt 250

PROsine 1800

ACCESSORIES

Remote Panel Interface Kit

S400 Remote Switch

Remote Panel

Transfer Relay

PROsine 1000

806-0400

806-1002

806-1810

801-3255

801-3853

806-1850

XS 400 Inverter

- A moderate power, true sine wave inverter
- · Built-in transfer switch, dual AC outlets, AC hardwire connections
- · Meets UL458 & FCC, Class B

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

PROwatt™ Inline Transfer Relay

shorepower and inverter AC source

for AC input and output interface

inverters

15A Transfer Relay provides switching between

connection to the inverter GFCI and hardwire cords

Equipped with a power plug for convenient

Meets UL458 when used with the PROwatt SW

808-1800

808-2400

808-9001

808-0915



XM Inverters

- · Compact but powerful modified sine wave
 - Designed to be hard-wired using a terminal strip or by connecting AC through GFCI recentacles

Included (On/Off)

Optional (On/Off)

Optional (On/Off)

Included (Digital)

Included (Digital)

Included (Digital)

Included (Digital)

Optional (On/Off)

Included (Digital)

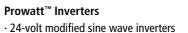
Included (Digital)

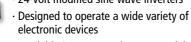
Optional (On/Off)

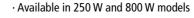
Included (Digital)

Included (Digital)

- · Conformal coated circuit boards
- · Built-in AC transfer switch, detachable remote panel · Meets UL 458 & FCC, Class B







GFCI and/or Hardwire

Hardwire w/ transfer relay

Hardwire w/ transfer relay

GFCI and/or Hardwire

GFCI and/or Hardwire

GFCI and/or Hardwire

Hardwire w/ transfer relay

PROwatt Remote Panel

· Includes a 25' remote cable

function to the user

230 V models

 \cdot Provides the convenience of a simple on/off remote

Compatible with the **PROwatt SW 120 V** and

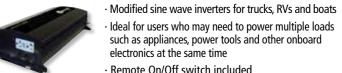
AC Outlet

GECL

GFCI

GFCI

GFCI



Inverters

XPower[™] Inverters – High Power

- 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

voltage and output power

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

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

· 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



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

XPower[™] OEM 450 Inverter

450 W output

· Meets UL458

more power to start

· Compact, modified sine wave inverter with

· Designed specifically for OEM applications

· High surge capacity for products that require

relay options

· CE marked for EMC & low voltage directives

Models	Part number	Input voltage	Max. cont. watts	Surge rating	AC outlets	Remote panel
XPower Mobile Plug 175	851-0178	12 V	140 W	350 W	1	NA
XPower Digital 400	813-0400-01	12 V	320 W	640 W	2	NA
XPower 450	851-0451	12 V	360 W	700 W	GFCI	NA
XPower 1000 Inverter	813-1000-UL	12 V	1000 W	2000 W	GFCI	Included (On/Off)
XPower 1500 Inverter	813-1500-UL	12 V	1500 W	3000 W	GFCI	Included (On/Off)
XPower 3000 Inverter	813-3000-UL	12 V	2500 W	5000 W	GFCI and/or Hardwire	Included (On/Off)
XPower 5000 Inverter	813-5000-UL	12 V	4000 W	10000 W	GFCI and/or Hardwire	Included (On/Off)

230 V MODELS

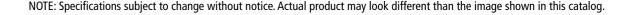
Models	Part number	Input voltage	Max. continuous watts	Surge rating	Transfer switch	AC output	Remote panel
PROwatt SW 700i	806-1206-01	12 V	700 W	1400 W	No	SCHUKO	Optional (On/Off)
PROsine 1000i	806-1070	12 V	1000 W	1500 W	No	SCHUKO	Included (Digital)
PROsine 1000i	806-1074	12 V	1000 W	1500 W	Yes	Hardwire 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)

OWERPACKS



· 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)



xantrex **Frequently Asked Questions**

Wave Form Comparison

Battery Charger FAQs

Q - What are the benefits of Multi-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 designe specifically for a deep discharge and a rapid recharge. Do not use starting batteries for inverter applications.

Inverter FAQs

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.

ecommended size of inverter

1200 watts (1000 watts + 200 watts) + 600 watts (0.50 X 1200 watts) = 1800 watts

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 - 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?

Q - What is automatic AC transfer

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

Why choose Xantrex?



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

Smart choice for power™

Commercial Vehicle Power Solutions



www.xantrex.com

INVERTER/CHARGERS BATTERY CHARGERS

ACCESSORIES





Product Installation

Typical Heavy Duty Truck Inverter/ Charger Installation Illustration





