

NEW



TRUECHARGE™2 BATTERY CHARGERS

AMP-IT-UP! NEW 24-Volt Universal Chargers

Building on the success of the TRUECharge™2 12-volt battery chargers, Xantrex™ now offers 24-volt battery chargers designed to meet the specific needs of marine and commercial markets. Available in 10A, 20A and 30A versions, each model packs a powerful universal charger (90-240Vac, 47-63 Hz) in an ultra-compact, lightweight package.

TRUECharge2 battery chargers are highly versatile and can be mounted in multiple positions, thanks to their inherent drip-free design characteristics. TRUECharge2 delivers outstanding low electrical interference, coupled with efficient, power factor corrected, multistage charging capability. Installation is a breeze, thanks to the easy-access AC and DC wiring compartments. The easy-to-read display can be augmented with an optional remote panel.

NEW PARALLEL FEATURE

TRUECharge2 24-volt chargers are available with parallel stacking feature which allows you to double the output current when used with the optional REMOTE PANEL (part #808-8040-01).



Performance Features

- ▶ Microprocessor-controlled, multistage charging algorithms
- ▶ Settings for two and three-stage charging
- ▶ Settings for flooded, gel, AGM or lead-calcium batteries
- ▶ Auto-ranging universal input voltage (90-265 Vac, 47-63 Hz) is also compatible with a generator or other low-quality power sources
- ▶ Power factor corrected, temperature-compensated charging
- ▶ Battery-equalization feature
- ▶ Ability to charge batteries drained to extremely low voltage
- ▶ Optional Battery temperature sensor (Part #808-0232-01)
- ▶ Optional Remote Panel (Part #808-8040-01)

Protection Features

- ▶ Reverse battery polarity protection
- ▶ Drip-proof design
- ▶ Over and under-temperature protection
- ▶ DC over-voltage protection
- ▶ Battery overcharging protection

Also available in 12-volt models: 10 A, 20 A, 40 A and 60 A.

10A

20A

30A

24 V



UL 1564
UL 1236
Including Marine Supplement



Xantrex Technology Inc.

3700 Gilmore Way
Burnaby, British Columbia
Canada V5G 4M1
800 670 0707 Toll Free
604 420 1591 Fax

541 Roske Drive, Suite A
Elkhart, Indiana
USA 46516
800 446 6180 Toll Free
574 294 5989 Fax

www.xantrex.com

10 A, 20 A and 30 A 24-volt Multistage Battery Chargers

Electrical Specifications (@ 25°C unless otherwise noted)

Models	TRUECHARGE2 10 / 20 / 30
Output current (nominal)	10 A / 20 A / 30 A
Output voltage (nominal, depending on battery type settings)	
• Charge	28.4 - 31.0 Vdc
• Float	26.8 - 27.6 Vdc
• Equalize	32 Vdc
DC output connections	Three
AC input voltage ¹	90-265 Vac 47-63 Hz 120 Vac, 230 Vac, 240 Vac nominal
Temperature compensation	Three settings
Charger efficiency	> 80%
Battery type	Gel, Flooded, AGM, Pb-Ca
Minimum recommended battery bank size	40 Ah / 80 Ah / 120 Ah

General Specifications

Models	TRUECHARGE2 10 / 20 / 30
Operating temperature ²	0 to 60°C
Storage temperature	-40 to 80°C
Battery connection	Three positive terminals One negative terminal
Dimensions (H x W x L)	10 A & 20 A - 2.8 x 6.7 x 9.8" (70 x 170 x 250mm) 30 A - 3.5 x 6.7 x 13.4" (90 x 170 x 340 mm)
Weight	10 A & 20 A - 4.8 lb (2.2 kg) 30 A - 9.9 lb (4.5 kg)
Warranty	Two year
Part Numbers	804-2410 / 804-2420 / 804-2430

Accessories

Remote panel	808-8040-01
Battery temperature sensor	808-0232-01

Regulatory Compliance

CSA E60335-2-29, UL1564, and UL1236 including the Marine Supplement, drip test, and Ignition Protection ratings. CE Marked for the Low Voltage Directive (safety) and the EMC Directive. Complies with IEC 60335-2-29 including Australian deviations. Ingress protection rating IP32 per EN/IEC 60529. Complies with FCC Part 15B and Industry Canada ICES-003 Class B emissions limits. Complies with ABYC A-31

¹ 90 - 104 Vac \pm 4 Vac output de-rated to 80% of full load current

² For all three models, the output current may derate above 50°C.

Highly Accelerated Life Tested (HALT) to -20°C.

Note: Specifications subject to change without notice.

Three-Stage Charging

Multistage charging helps ensure batteries receive optimum charging, but with minimal wear and tear, regulating the voltage and current delivered to the batteries in three automatic stages:

- ▶ **Bulk:** Replaces 70-80% of the battery's state-of-charge at the fastest possible rate.
- ▶ **Absorption:** Replenishes the remaining 20-30% of charge, bringing the battery to a full charge at a slow, safe rate.
- ▶ **Float:** Voltage is reduced and held constant in order to prevent damage and maintain batteries at a full charge.

Power Factor Corrected (PFC)

Less shorepower is required for charging batteries, freeing up more usable AC power for running electrical devices and appliances and reducing