



## TRUECHARGE2 BATTERY CHARGER DATASHEET



AVAILABLE IN:

**10A/24V**  
**20A/24V**  
**30A/24V**

### ULTRA-COMPACT, HIGH PERFORMANCE CHARGER FOR WORLDWIDE CHARGING

Building on the success of the TRUECharge2 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.



Automatic 3-stage Battery Charger



DC to AC Power Inverting



Included Battery Temperature Sensor



Circuit Breaker Protection

#### APPLICATIONS:



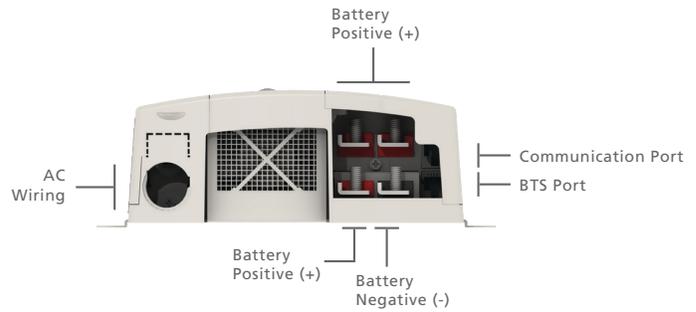
[www.xantrex.com](http://www.xantrex.com)

CUSTOMER CARE: 1.800.670.0707

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FRONT VIEW



BOTTOM VIEW

## PRODUCT FEATURES

- Equipped with parallel stacking (remote panel required)
- Microprocessor-controlled, multistage charging algorithms
- Settings for two and three-stage charging
- Settings for flooded, gel, AGM or lead-calcium batteries
- Battery-equalization feature
- Ability to charge batteries drained to extremely low voltage
- Power factor corrected, temperature compensated charging

## PROTECTION FEATURES

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

## THREE-STAGE PROTECTION

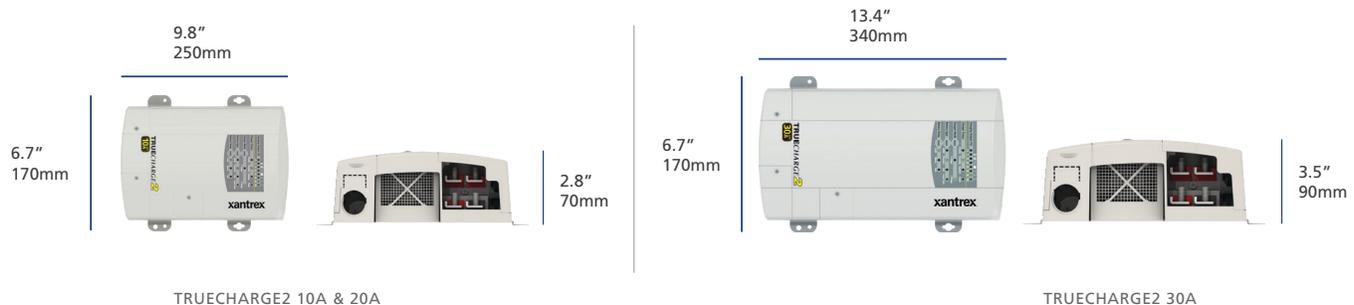
Multistage charging ensures batteries receive optimum charging, but with minimal wear and tear, regulating the voltage and current delivered to the batteries in three automatic stages:

- 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 the remaining 20–30% of charge, bringing the battery to a full charge at a slow, safe rate

## POWER FACTOR CORRECTED (PFC) CHARGING

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

### TRUECHARGE2 BATTERY CHARGER DIMENSIONS



**ELECTRICAL SPECIFICATIONS (@ 25°C unless otherwise noted)**

	TRUEcharge2 10	TRUEcharge2 20	TRUEcharge2 30
Output Current (nominal)	10A	20A	30A
Output Voltage (nominal, depending on settings)			
Charge	28.4 – 31.0Vdc	28.4 – 31.0Vdc	28.4 – 31.0Vdc
Float	26.8 – 27.6Vdc	26.8 – 27.6Vdc	26.8 – 27.6Vdc
Equalize	32Vdc	32Vdc	32Vdc
DC Output Connections	Three	Three	Three
AC Input Voltage*	90 – 265Vac; 47 – 63Hz 120Vac, 230Vac, 240Vac nominal	90 – 265Vac; 47 – 63Hz 120Vac, 230Vac, 240Vac nominal	90 – 265Vac; 47 – 63Hz 120Vac, 230Vac, 240Vac nominal
Temperature Compensation	Three settings	Three settings	Three settings
Charger Efficiency	> 80%	> 80%	> 80%
Battery Type	Gel, Flooded, AGM, Pb-Ca	Gel, Flooded, AGM, Pb-Ca	Gel, Flooded, AGM, Pb-Ca
Minimum Recommended Battery Bank Size	40Ah	80Ah	120Ah

**GENERAL SPECIFICATIONS**

	TRUEcharge2 10	TRUEcharge2 20	TRUEcharge2 30
Operating Temperature Range**	32°F – 140°F (0°C – 60°C)	32°F – 140°F (0°C – 60°C)	32°F – 140°F (0°C – 60°C)
Storage Temperature	-40°F – 176°F (-40°C – 80°C)	-40°F – 176°F (-40°C – 80°C)	-40°F – 176°F (-40°C – 80°C)
Battery Connection	Three positive terminals One negative terminal	Three positive terminals One negative terminal	Three positive terminals One negative terminal
Dimensions (H x W x L)	2.8 x 6.7 x 9.8" (70 x 170 x 250mm)	2.8 x 6.7 x 9.8" (70 x 170 x 250mm)	3.5 x 6.7 x 13.4" (90 x 170 x 340mm)
Weight	4.8lb (2.2kg)	4.8lb (2.2kg)	9.9lb (4.5kg)
Part Number	804-2410	804-2420	804-2430

**REGULATORY APPROVALS**

CSA E60335-2-29, UL1564, and UL1236 including the Marine Supplement and drip test. 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

Specifications are subject to change without notice.  
Highly Accelerated Life Tested (HALT) to -20°C.

\*90 – 104Vac ± 4Vac output de-rated to 80% of full load current  
\*\*For all three models, the output current may derate above 50°C.

**ACCESSORIES**

Mfg Part #	Description
808-0232-01	BTS (battery temperature sensor)
808-8040-01	Remote Panel

NOTE: Contact Xantrex or your dealer to order these accessories.

**CONTACT****CUSTOMER SERVICE**

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Hours of operation:  
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