### TRUECHARGE<sup>®</sup>2 Battery Chargers – 12-volt

# xantrex



#### Redesigned, High Performance, Worldwide Charging

Xantrex<sup>™</sup> TRUE*CHARGE<sup>™</sup>2* Battery Chargers lead the industry with a small footprint and ultra-compact design. In addition to meeting global safety and regulatory standards, TRUE*CHARGE2* Battery Chargers feature low electrical interference and efficient, power factor corrected multistage charging. TRUE*CHARGE2* Battery Chargers can be mounted in a variety of positions, given their drip-proof design. TRUE*CHARGE2* Battery Chargers enable quick installation with easy-to-access AC and DC wiring compartments.

Designed primarily for marine and commercial applications worldwide, TRUECHARGE2 Battery Chargers are unmatched for reliability. Available in three 12-volt models, they are versatile enough to be used in a wide variety of conditions and locations. Auto-ranging AC input voltage capability (90 - 265 volts AC) makes traveling abroad and handling poor-quality power a breeze. The easy-to-read display can be augmented with an optional remote panel.

#### **Performance Features**

- 12-volt models available in 20 A, 40 A and 60 A
- 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
- Temperature-compensated charging
- Power factor corrected for efficient charging
- Battery-equalization feature
- Ability to charge 'dead' batteries
- Battery temperature sensor available (Part #808-0232-01)
- Optional Remote Panel (#808-8040-00 for 60 A & #808-8040-01 for 20 A and 40 A)

#### **Protection Features**

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

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20A 40A 60A

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#### 20, 40 and 60 amp 12-volt Multistage Battery Chargers

Models	TRUECHARGE2 20 / 40	TRUECHARGE2 60
Output current (nominal)	20 A / 40 A	60 A
Output voltage (nominal, depending on settings)		
· Charge	14.2 - 15.5 Vdc	14.2 - 15.5 Vdc
· Float	13.4 - 13.8 Vdc	13.4 - 13.8 Vdc
· Equalize	16 Vdc	16 Vdc
DC output connections	Three	Three
AC input voltage <sup>1</sup>	90-265 Vac 47-63 Hz	90-265 Vac 47-63 Hz
	120 Vac, 230 Vac, 240 Vac nominal	120 Vac, 230 Vac, 240 Vac nominal
Temperature compensation	Three settings or optional remote battery temperature sensor	
Charger efficiency	> 80%	> 80%
Battery type	Gel, Flooded, AGM and Pb-Ca	Gel, Flooded, AGM and Pb-Ca
Minimum recommended battery bank size	40 Ah for 20 A / 80 Ah for 40 A	120 Ah for 60 A
Nodels	TRUECHARGE2 20 / 40	TRUECHARGE2 60
Models		
Operating temperature <sup>2</sup>	0 to 65°C	0 to 65°C
Storage temperature	-40 to 80°C	-40 to 80°C
Battery connection	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 × 170 × 250mm)	3.5 x 6.7 x 13.4" (90 x 170 x 340 mm)
. ,	4.8 lb (2.2 kg)	9.9 lb (4.5 kg)
Weight	4.6 ID (2.2 Kg)	
5	Two year	Two year
Warranty		Two year 804-1260
Warranty	Two year	•
Weight Warranty Part Numbers Accessories	Two year	•
Warranty Part Numbers	Two year	•
Warranty Part Numbers Accessories	Two year 804-1220-02 / 804-1240-02	•

#### **Regulatory Compliance**

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

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

<sup>2</sup> For 20A and 40A charger, output current derates above 50°C. For 60 A charger, output current derates above 40°C. Highly Accelerated Life Tested (HALT) to -20°C. Note: Specifications subject to change without notice.

#### **Three-Stage Charging**

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.

#### **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 the likelihood of tripping shorepower breakers.