

## TrueCharge2 Battery Chargers – 12 volt

# xantrex



### Redesigned, High Performance, Worldwide Charging

Xantrex TrueCharge2 Battery Chargers lead the industry with a small footprint and ultra-compact design. In addition to meeting global safety and regulatory standards, TrueCharge2 Battery Chargers feature low electrical interference and superior, efficient, power factor corrected multistage charging. TrueCharge2 Battery Chargers can be mounted virtually anywhere, given their unique drip-proof design. With certified ignition protection, even a gasoline engine room is a safe option for installation. Trouble-free installation is ensured with easy-to-access AC and DC wiring compartments and reverse-polarity battery protection.

Designed primarily for marine and commercial applications worldwide, TrueCharge2 Battery Chargers are unmatched for reliability. Available in both 12 and 24-volt models, they are versatile enough to be used in a wide variety of conditions and locations. Auto-ranging AC input voltage capability (90 - 270 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 10 A, 15 A, 20 A, 30 A, 40 A, 50 A and 60 A
- ▶ Microprocessor-controlled, multistage charging algorithms
- ▶ Settings for flooded, gel, AGM or lead-calcium batteries
- ▶ Auto-ranging universal input voltage (90-270 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 display includes a maximum charger output control (Part #808-8040-00)

### Protection Features

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

## TRUECHARGE<sup>TM</sup>2

10A

15A

20A

30A

40A

50A

60A

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## 10, 15, 20, 30, 40, 50 and 60 amp Multistage Battery Chargers

### Electrical Specifications (@ 25°C unless otherwise noted)

Models	TrueCharge2 10 / 15	TrueCharge2 20 / 30 / 40	TrueCharge2 50 / 60
Output current (nominal)	10 A / 15 A	20 A / 30 A / 40 A	50 A / 60 A
Output voltage (nominal, depending on settings)			
· Charge	14.2 - 15.5 Vdc		
· Float	13.4 - 13.8 Vdc		
· Equalize	16 Vdc		
DC output connections	One / Two	Three	Three
AC input voltage <sup>1</sup>	90-270 Vac 47-63 Hz 120 Vac, 230 Vac, 240 Vac nominal		
Temperature compensation	Three settings or optional remote battery temperature sensor		
Charger efficiency	> 80%		
Battery type	Gel, Flooded, AGM and Pb-Ca		
Recommended battery size	25 Ah to 100 Ah	100 Ah to 400 Ah	200 Ah to 600 Ah

### General Specifications

Models	TrueCharge2 10 / 15	TrueCharge2 20 / 30 / 40	TrueCharge2 50 / 60
Operating temperature <sup>2</sup>	-20 to 65°C		
Storage temperature	-40 to 80°C		
Battery connection	One / Two 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 7.9" (70 x 170 x 200mm)	2.8 x 6.7 x 9.8" (70 x 170 x 250mm)	2.8 x 6.7 x 13.8" (70 x 170 x 350mm)
Weight	4.4 lb (2.0 kg)	8.8 lb (4.0 kg)	9.9 lb (4.5 kg)
Warranty	Two year		
Part Numbers	804-1210 804-1215	804-1220 804-1230 804-1240	804-1250 804-1260
Remote Panel	808-8040-00		
Battery Temperature Sensor	808-0232-01		

### Regulatory & Environmental Compliance

CSA/UL approved to CSA 107.2, UL 1236 (including marine drip test per UL1236, Marine Supplement SB13), UL458 SA15 Salt fog test, Ingress Protection rating IP32 per EN/IEC 60529, CE, RoHS, WEEE Directive 2002/96/EC, FCC Class B and ABYC.

<sup>1</sup> 105 - 264 Vac full performance. 90 - 105 Vac  $\pm$  4 Vac output de-rated to 80% of full load current

<sup>2</sup> -20 to 50°C full performance. Between 50° and 65°C DC output current de-rated

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.