



TRUECHARGE™2 BATTERY CHARGERS

Ultra-Compact, High Performance Charger for Worldwide Charging

TRUECHARGE™2 Battery Chargers lead the industry with a small footprint and ultra-compact design. Designed for marine and commercial applications worldwide, the new TRUECHARGE2 10-amp charger is the latest addition to the TRUECHARGE2 series.

The new TRUECHARGE2 10-amp charger replaces the former best-selling, first-generation TRUECHARGE 10TB unit and features universal auto ranging input voltage (90 Vac to 265 Vac, 47 to 63 Hz), which can be used in most parts of the world. The TRUECHARGE2 10-amp is smaller and lighter than its predecessor and can be mounted in a variety of positions.

The TRUECHARGE2 10-amp charger uses power factor correction to deliver a full three-stage charge cycle. As a result, the charger requires less incoming AC power to operate at its peak efficiency, freeing up more usable AC power for onboard electronics. The TRUECHARGE2 10-amp charger meets stringent safety and regulatory standards including UL1564 and UL1236.

Performance Features

- ▶ Microprocessor-controlled, multistage charging algorithms
- ▶ Charges 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
- ▶ Ability to charge healthy batteries drained to low voltage
- ▶ Mounting is possible in a variety of orientations and in areas where space is limited
- ▶ Easy access to AC and DC wiring from one side
- ▶ Tested to conform to ingress protection rating IP32 and meets UL1564, UL1236 including marine supplement and ABYC standards

Protection Features

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

Also available in 20 A, 40 A, and 60 A models



UL 1564
UL 1236
Including Marine Supplement



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TRUECHARGE™2 10 A Battery Charger

Electrical Specifications (@ 25°C unless otherwise noted)

Models	TRUECHARGE2 10
Output current (nominal)	10 A
Output voltage (nominal, depending on settings)	
• Charge	14.2 - 15.5 Vdc
• Float	13.4 - 13.8 Vdc
• Equalize	NA
DC output connections	Two
AC input voltage	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	20Ah

General Specifications

Models	TRUECHARGE2 10
Operating temperature *	0 to 65°C
Storage temperature	-40 to 80°C
Battery connection	Two positive terminals One negative terminal
Dimensions (H x W x L)	2.7 x 5.4 x 8.8" (70 x 138 x 224 mm)
Weight	3.3 lb (1.5 kg)
Warranty	Two year
Part Numbers	804-1210

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

*Output may derate above 50°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) 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.