

## Portable 10 Amp Multistage Battery Charger



CSA/NRTL Certified to UL and CSA Standards

### Charges Two Battery Banks Simultaneously

Truecharge 10TB is a 10-amp continuous duty charger with enclosed screw terminals for safe, secure AC and DC connection. It features two outputs that are isolated from one another for simultaneous charging of two battery banks. One bank can be used for the engine, while the other can be used to recharge the house bank - or two house bank batteries can be recharged at the same time. Truecharge 10TB is also able to recharge completely discharged batteries (when voltage approaches 0 VDC).

### Product Features

- ▶ 10 amp output
- ▶ Microprocessor controlled, multistage charging
- ▶ Charges up to two battery banks simultaneously
- ▶ Settings for flooded or gel lead-acid batteries
- ▶ Wide voltage range operation (90–135 VAC, 50/60 Hz)
- ▶ Automatic 21 day top-up
- ▶ Covered terminal block with screw terminals for safe and easy connection
- ▶ One year warranty

### Protection Features

- ▶ Over-temperature shutdown and overload protection
- ▶ Ignition protected
- ▶ Transformer isolated for safety and to protect against electrolysis
- ▶ Reverse polarity protection (15 A fuse on each DC output)
- ▶ Short-circuit and surge protection

### Xantrex Technology Inc.

Headquarters  
8999 Nelson Way  
Burnaby, British Columbia  
Canada V5A 4B5  
800 670 0707 Toll Free  
604 420 1591 Fax

5916 195th Northeast  
Arlington, Washington  
USA 98223  
800 446 6180 Toll Free  
360 925 5144 Fax

## Portable 10 Amp Multistage Battery Charger

### Electrical Specifications

Output current	10 A @ 14.5 V nominal
Output voltage (nominal, depending on settings)	
• Charge	14.2 - 14.4 VDC
• Float	13.5 - 13.8 VDC
DC output connections	dual
Output fuses	15 A 32 V
AC input voltage	90-135 VAC, 50/60 Hz
Temperature compensation	none
Charger efficiency	85% approx.
Recommended battery type	gel / flooded

### General Specifications

Operating temperature	0°C – 40°C
Storage temperature	-25°C – 70°C
Battery connection	two separate positive terminals, one common negative terminal
AC and DC connections	six position terminal block with No. 8 screws (for ring terminals with maximum 0.42 OD)
Dimensions (HxWxD)	2.75 x 6.5 x 10.65" (70 x 165 x 270 mm)
Weight	3.0 lb (1.4 kg)
Warranty	One year
Part number	804-0111

### Regulatory Approvals

CSA/NRTL approved to **CSA 107.2, UL 1236**, including ignition protection and the Marine Supplement

Note: Specifications subject to change without notice.

### Battery Charge Times (Based on a recommended 50% discharge)

Battery Group	Approximate amp hours	Charge Time (hours)
U-1	30	2
24	75	5
27	100	6.5
4D	200	12.5

### 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 keep batteries at a full charge.