

TRUECHARGE2 10A 12V BATTERY CHARGER



Ultra-compact, high performance charger

TRUECHARGE2 Battery Chargers lead the industry with a small footprint and ultra-compact design.

Designed for commercial applications worldwide, the TRUECHARGE2 10-amp 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 small and light 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.

Performance:

- Microprocessor-controlled, multistage charging algorithms
- Charges flooded, gel, AGM or lead-calcium batteries
- Power factor corrected, temperature-compensated charging
- 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

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.

Electrical Specifications (@25°):

- 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: 20 Ah

Technical Specifications:

- 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 Number: 804-1210

*Output may derate above 50°C

Accessories:

- TRUECharge™2 Battery Temperature Sensor
part# 808-0232-01



The BTS mounts on a terminal post of a battery in a bank or on the side of a battery and measures its temperature. It sends precise information to the charger or charge controller, which automatically adjusts voltage to help ensure full battery charge depending on the ambient temperature of your battery installation.

- TRUECharge™2 Remote Panel
part# 808-8040-01