

TRUECHARGE2 20A, 40A, 60A 12V BATTERY CHARGER



Ultra-compact, high performance charger

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 efficient, power factor corrected multistage charging. Thanks to their inherent drip-proof design characteristics, the TRUECharge2 chargers can be mounted in multiple positions.

Designed for recreational and commercial applications worldwide, TRUECharge2 accepts 90 - 265 Vac, 47-63 Hz which makes traveling abroad and handling poor-quality power a breeze. The easy-to-read display of the TRUECharge2 20 A, 40 A and 60 A 12 V models can be augmented with an optional remote panel. Each model comes with built-in protection against surges and spikes on the AC power line.

Performance:

- TRUECharge2 20 A, 40 A and 60 A are equipped with PARALLEL STACKING feature. This allows two chargers to work together to combine the output current, achieving up to 120 A for large battery banks. This requires the optional Remote Panel (part #808-8040-01)
- Microprocessor-controlled, multistage charging algorithms
- Settings for two and three-stage charging
- Settings for flooded, gel, AGM or lead-calcium batteries
- Battery-equalization feature
- Ability to charge batteries drained to extremely low voltage
- Optional battery temperature sensor (Part #808-0232-01)

Protection features:

- Reverse battery polarity protection
- Drip-proof design
- Over and under temperature protection
- DC over-voltage 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): 20 A / 40 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 Three
- 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: 40 Ah / 80 Ah / 120 Ah

Technical Specifications:

- Operating temperature**: 0 to 65°C
- Storage temperature: -40 to 80°C
- Battery connection:
Three positive terminals
One negative terminal
- Dimensions (H x W x L):
20 A & 40 A - 2.8 x 6.7 x 9.8" (70 x 170 x 250mm)
60 A - 3.5 x 6.7 x 13.4" (90 x 170 x 340 mm)
- Weight:
20 A & 40 A - 4.8 lb (2.2 kg)
60 A - 9.9 lb (4.5 kg)
- Warranty: Two year
- Part Number:
804-1220-0s2 / 804-1240-02 / 804-1260-02

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

**Output current derates above 50°C (except 40A model which derates above 40°C). Highly Accelerated Life Tested (HALT) to -20°C.

