



## TRUECHARGE™2 BATTERY CHARGERS

### Ultimate, High Performance, Worldwide Charging

TRUECharge™2 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 20A, 40A and 60A 12V models can be augmented with an optional remote panel. Each models comes with built-in protection against surges and spikes on the AC power line.

#### NEW PARALLEL FEATURE

TRUECharge2 20A, 40A and 60A are equipped with NEW PARALLEL STACKING feature. This allows two chargers to work together to combine the output current, achieving up to 120V for large battery banks. This requires the optional Remote Panel (part #808-8040-01).



#### Performance Features

- ▶ Microprocessor-controlled, multistage charging algorithms
- ▶ Settings for two and three-stage charging
- ▶ Settings for 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
- ▶ Battery-equalization feature
- ▶ Ability to charge batteries drained to extremely low voltage
- ▶ Optional Battery temperature sensor (Part #808-0232-01)
- ▶ Optional Remote Panel (part #808-8040-01)

#### Protection Features

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

Also available in 10A model.

20A

40A

60A

12V



UL 1564  
UL 1236  
Including Marine Supplement



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## 20A, 40A and 60A 12-volt Multistage Battery Chargers

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

Models	TRUECHARGE2 20 / 40 / 60
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

### General Specifications

Models	TRUECHARGE2 20 / 40 / 60
Operating temperature**	0 to 60°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 Numbers	804-1220-02 / 804-1240-02 / 804-1260-02

### Accessories

Remote panel	808-8040-01
Battery temperature sensor	808-0232-01

### Regulatory Compliance

CSA E60335-2-29, UL1564, and UL1236 including the Marine Supplement, drip test, and Ignition Protection ratings. 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

\* 90 - 104 Vac ± 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

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.