

Truecharge 10i, 20i and 40i

10, 20 and 40-amp Multistage Battery Chargers



High Performance, Multistage Charging

Truecharge multistage battery chargers are microprocessor controlled for fast and accurate charging of all deep-cycle batteries. Built with a wide AC input voltage range, the chargers deliver a full three-stage charge, even when charging from shore power or generator power. All Truecharge battery chargers come with a one-year warranty.

Product Features

- ▶ Three models available: 10 amp, 20 amp and 40 amp DC output
- ▶ 10 amp: Single bank charging
- ▶ 20 amp/40amp: Dual-bank charging with 2 separate DC positive terminals
- ▶ Microprocessor-controlled, multistage charging (bulk/absorption/float)
- ▶ Easy battery connection with clip leads (10 amp)
- ▶ Settings for flooded (wet) or gel lead-acid batteries
- ▶ Wide voltage range operation (200-250 VAC, 50/60 Hz)
- ▶ Automatic 21-day top-up program
- ▶ Lightweight, compact size
- ▶ Optional remote LED display panel shows charge current and charger status
- ▶ Temperature compensation via selector switch or optional automatic temperature sensor
- ▶ Durable and corrosion resistant chassis
- ▶ Equalization mode

Protection Features

- ▶ Over-temperature shutdown and overload protection
- ▶ Non-sparking battery connection
- ▶ Transformer isolated for safety and to protect against electrolysis
- ▶ Reverse polarity protection
- ▶ Short-circuit and surge protection

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10, 20 and 40-amp Multistage Battery Chargers

Electrical Specifications

	Truecharge 10i	Truecharge 20i	Truecharge 40i
Output current	10 A	20 A continuous duty	40 A continuous duty
Output voltage (nominal, depending on settings)			
· Charge	13.8-14.8 VDC	13.8-14.8 VDC	13.8-14.8 VDC
· Float	13.1-14.2 VDC	13.1-14.2 VDC	13.1-14.2 VDC
· Equalize	None	15.5 VDC @ 5 A maximum	15.5 VDC @ 5 A maximum
DC outputs	Clip leads	Two	Two
AC input voltage	200-250 VAC, 50/60 Hz	200-250 VAC, 50/60 Hz	200-250 VAC, 50/60 Hz
Temperature compensation	Manual switch	3 settings or optional remote	3 settings or optional remote
Charger efficiency	82% approx.	85% approx.	85% approx.
Recommended battery size	25 Ah to 200 Ah	100 Ah to 400 Ah	200 Ah and up

General Specifications

	Truecharge 10i	Truecharge 20i	Truecharge 40i
Operating temperature	0°C to 25°C	40°C max.	40°C max.
Storage temperature	-25°C - 70°C	-25°C - 70°C	-25°C - 70°C
AC connections	None	IEC plug	IEC plug
DC connections	Clip leads	Terminal block	Terminal block
Fan cooled	No	No	Yes
Dimensions (HxWxL)	7 x 17 x 19 cm	7 x 16.5 x 39 cm (including mounting brackets)	7 x 16.5 x 39 cm (including mounting brackets)
Weight	1.6 kg	2.5 kg	3.4 kg
Warranty	One year	One year	One year
Part No.	804-2100	804-2270	804-2470
Part No. (remote panel)		808-0200	808-0400
Part No. (temperature sensor)		808-0231	808-0231

Regulatory Approvals

Truecharge 10i CSA/NRTL approved to CSA 107.2, UL 1236

Truecharge 20i/40i CE Marked according to the EMC Directive and Low Voltage Directive