



- Microprocessor controlled, fully automatic multistage battery chargers. Four stage charge cycles (Boost, Absorption, Float and 21 day top up charge).
- User displays to show Amperage delivered and charger status.
- Battery type selector switch to suit your exact battery type.
- Battery temperature selector switch to ensure exact boost and float voltage settings.
- Equalisation mode (20 and 40amp models only) to recondition and maintain your batteries.
- Dual battery bank charging to independently charge more than one battery bank.
- Outstanding safety features (Non sparking on connection, over temperature, reverse polarity and short circuit protection).
- Lightweight and compact size.

Probably the greatest success story in smart battery chargers is still the best low cost option for anybody to consider: TRUEcharge started smart charging technology, and even today their performance still outranks the more "modern" competitors. Providing a fast and accurate charge for any application the Truecharge is a true "connect and forget" charger. Once the Truecharge has completed its charging cycle, it drops to a safe "Float" voltage to maintain the batteries charge.

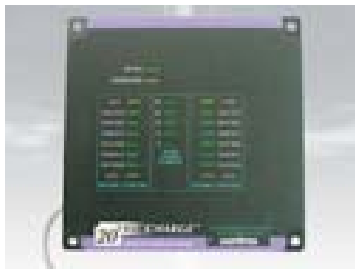
Many other multi step chargers are easily fooled into delivering an improper charge which can damage your batteries. For example, other brands detect completion of the charging cycle when charging current drops below a threshold value. These chargers will keep charging indefinitely at dangerously high charging voltage if a load connected to the battery draws more than this threshold point (e.g. Fridges). Truecharge's microprocessor isn't easily fooled; it monitors charging voltage, current and time to make a truly smart decision about when to stop charging.

The output of the Truecharge is also perfect for all sensitive DC applications. Poor quality battery chargers produce large amounts of DC ripple, which is picked up and amplified by some equipment designed to be run from DC power. The Truecharge uses a non-pulsing charge output current to ensure that the DC output is very smooth – to the point of being as close as you can get to ripple free. In many cases

the only noise you will ever hear of your smart battery charger would be the cooling fan operating (on 40amp model only).



See it Work – The Truecharge range constantly is working on recharging your batteries when connected. Plug the charger in and watch the bar graph showing the charger current being delivered to the batteries. Then every 15 minutes of operation see it stop charging to calibrate



internal current measuring circuit and check for new or disconnected batteries. The Truecharge stops for 5-30 seconds, and then resumes charging where it left off. Easily Equalise your Batteries - Equalization mode is a controlled overcharge used periodically (e.g. once each month) to help dissolve any recently solidified sulphate deposits on the battery plates. The Equalize feature is only available on the Truecharge 20i or 40i and is easily initiated by the pressing of a small recessed button just below the "Charging" indicator. Just let the equalisation run its own course, or simply turn the charger off after a few hours for peace of mind.

For installations where you cannot see the actual front of the Truecharge, simply install the optional remote panel for complete readouts of what the charger is doing (20 & 40amp models only).



The optional Temperature sensor can be installed on Truecharge (20 & 40amp models only) to completely automate the charging process for your battery type.

Electrical Specifications			
Models	Truecharge 10i	Truecharge 20i	Truecharge 40i
Output current	10 A continuous duty	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 - Single	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			
Operating temperature	40°C max	40°C max	40°C max
AC connections	IEC plug	IEC plug	IEC plug
DC connections	Clip leads	Terminal block	Terminal block
Fan cooled	No	No	Yes
Dimensions (HxWxL)	70 x 170 x 190 mm	70 x 165 x 390 mm	70 x 165 x 390 mm
Weight	1.6 kg	2.5 kg	3.4 kg
Warranty	Two years	Two years	Two years
Regulatory Approvals			
Truecharge 10i	CSA/NRTL approved to CSA 107.2, UI 1236		
Truecharge 20i/40i	CE Marked according to the EMC Directive and Low Voltage Directive		
Note: Specifications subject to change without notice.			