

Industrial battery chargers, power supplies and controls.

Enclosed Sentry Range of Automatic Battery Chargers



This document describes the enclosed option for the Sentry range of chargers.

Description

The Sentry range provides fully automatic, current limited, thyristor controlled, charging of vented lead acid or NiCd batteries. The units may be used in a wide range of industrial charging applications, including standby engines, pumps and generators. The charger comes in a wall mounting enclosure complete with mains switch, output fuse and ammeter.

Each unit consists of a transformer, rectifier and control circuit. The control circuit ensures that the charger maintains a battery voltage at the pre-calibrated float level, while supplying any additional load current up to the specified maximum.

Boost option

A 'boost' mode of operation provides increased voltage output. Selection of boost mode is via two terminals, allowing activation by a time delay relay or switch. The calibration table over leaf shows details of float and boost voltages.

Charge fail option

A self diagnostic 'charge fail' circuit and relay output is provided. The volt free relay de-energises in the event of a charging fault or loss of AC input. Electrical connection of the AC supply, DC output charge fail relay and boost connector link are via spring clamp connections.

- Float Charging
 3A or 5A @ 12V 3A, 5A or 7A @ 24V
- DC ammeter
- Lead Acid or Ni-Cd calibrations
- Optional boost mode
- Optional charge fail relay output
- Stainless steel enclosure

Product Specification

Power Supply:

nominal operating voltages	110-120 VAC (115V Units) 220-240 VAC (230V Units) 260-295 VAC (277V Units)		
permissible voltage variation	± 6% of nominal		
nominal operating frequency	50-60Hz		
DC Charge Output:			
maximum current ADC nominal voltage VDC	5 24	5 12	
float / boost voltages	see table over leaf		
Charge Fail Output:			

relay type	volt free SPDT contacts
	relay energized on fault
contact rating	1A @ 30V,DC (resistive load)
Conorol	

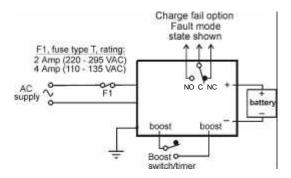
General:

operating temperature	-10 to +55°C
overall dimensions	see table over leaf
weight	see table over leaf
EMC emission / immunity	EN 58801-2 / EN50082-2

Warranty

A one year limited warranty on materials and workmanship is given with this product. Details are available upon request.

Electrical connection



Notes:

1) battery output is isolated from chassis

2) chassis must be connected to a low impedance earth

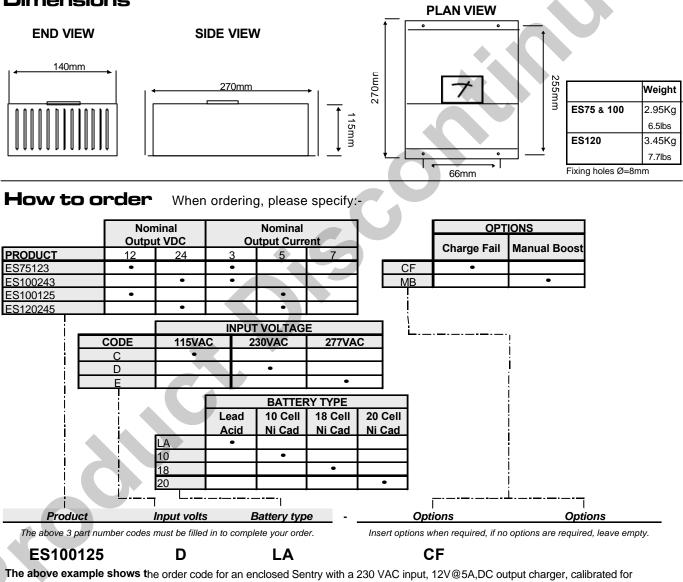
Dimensions

Calibration

Battery t	ype*	float volts (VDC)	boost volts (VDC)
	Lead Acid (6 cells)	13.6	14.1
12V	Ni-Cd (10 cells)	14.1	16.0
	Lead Acid (12 Cells)	27.2	28.2
24V	Ni-Cd (18 Cells)	25.38	28.8
	Ni-Cd (20 Cells)	28.2	32.0

*Note: the sentry range is designed for use with vented batteries only. These chargers are NOT suitable for valve regulated lead acid (VRLA) or sealed type cells. For charging non vented chargers see the switch mode range.

If in doubt, contact our technical departement .



a vented lead acid battery, and with the charge fail option.

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