

Monitor Range of Automatic Battery Chargers



Description

The Monitor range provides fully automatic, heavy duty, 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 uses an open frame construction, designed for surface mounting in an enclosed panel. Each unit consists of a transformer, rectifier and control circuit. The control circuit ensures that charger maintains the 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 the boost mode is via three terminals, allowing activation by a time delay relay or switch. Calibration table over leaf shows details of float and boost voltages.

Charge fail option

A self diagnostic 'charge fail' circuit and relay output is available. The volt free relay de-energises in the event of a charging fault or loss of AC input. The AC supply connections feature multiple transformer tapings to allow exact matching of the supply voltage: 240V units allow connection of 220V, 240V, 250V or 277VAC systems; 110V units allow connection of 110V, 120V, 125V and 135VAC systems. Connection of the AC supply, DC output, charge fail relay and float / boost selector slink are via spring clamp connections.

- **Heavy duty float charging:**
9 or 15A @ 24V - 16 or 30A @ 12V
- **Simple, low cost design**
- **Lead Acid or Ni-Cd calibrations**
- **Optional boost mode**
- **Optional charge fail relay output**

Product Specification

Power Supply:

nominal operating voltages	110/120/125/135 VAC (110V Units) 220/240/250/277 VAC (240V Units)
permissible voltage variation	± 6% of nominal
nominal operating frequency	50/60Hz

DC Charge Output:

maximum current ADC	15	30
nominal voltage VDC	24	12
float / boost voltages	see table overleaf	

Charge Fail Output:

relay type	volt free SPDT contacts relay de-energised on fault
contact rating	1A @ 30VDC (resistive load)

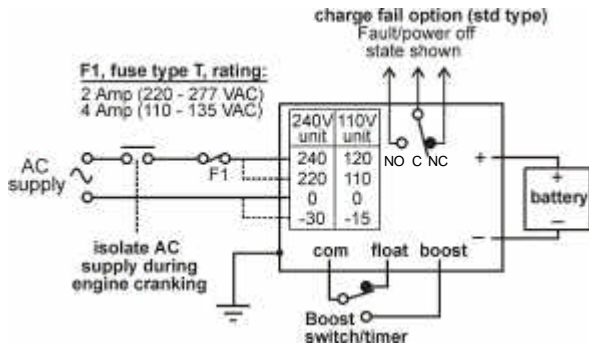
General:

operating temperature	-10 to +55°C
overall dimensions	see table overleaf
weight	see table overleaf
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

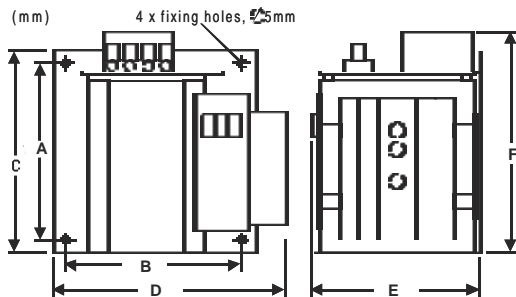
Calibration

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

*Note: the monitor 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 department .

Dimensions



	M200 All models (mm)	M360 All models (mm)
A	123	140
B	125	140
C	144	160
D	170	185
E	118	135
F	160	175
Weight	4.5Kg	7.8Kg

How to order

When ordering, please specify:-

PRODUCT	Nominal Output VDC		Nominal Output Current			
	12	24	9	15	16	30
M200249		•	•			
M3602415		•		•		
M2001216	•				•	
M3601230	•					•

	OPTIONS	
	Charge Fail	Manual Boost
CF	•	
MB		•

CODE	INPUT VOLTAGE	
	110VAC	240VAC
C	•	
D		•

	BATTERY TYPE			
	Lead Acid	10 Cell Ni Cad	18 Cell Ni Cad	20 Cell Ni Cad
LA	•			
10		•		
18			•	
20				•

Product **Input volts** **Battery type**

Options **Options**

The above 3 part number codes must be filled in to complete your order

Insert options when required, if no options are required, leave empty.

M3601230

D

LA

CF

The above example shows the order code for a 240VAC input, 12V@30A, DC output charger, calibrated for a vented lead acid battery, and with the charge fail option.

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