CCL

Industrial battery chargers, power supplies and controls.

PC&S

Monitor Range of
Automatic Battery Chargers

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

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-energizes in the event of a charging fault., or loss of AC input

The AC supply connections feature multiple transformer tappings to allow exact matching of the supply voltage: 240V units allow connection of 220, 240V, 250V and 270V,AC systems; 110V units allow 110V, 120V, 125V and 135V,AC systems. Connection of the AC supply, DC output, charge fail relay and float / boost selector link are all via spring clamp connections.

Product Specification

Power Supply:

Nominal Operating Voltages	110/120/125/135 V,AC (110V Units) 220/240/250/270 V,AC (240V Units)
Permissible Voltage Variation	± 6% of nominal
Nominal Operating Frequency	50-60Hz

DC Charge Output:

Maximum Current A,DC	15	30
Nominal Voltage V,DC	24	12
Float / Boost Voltages	see table overleaf	

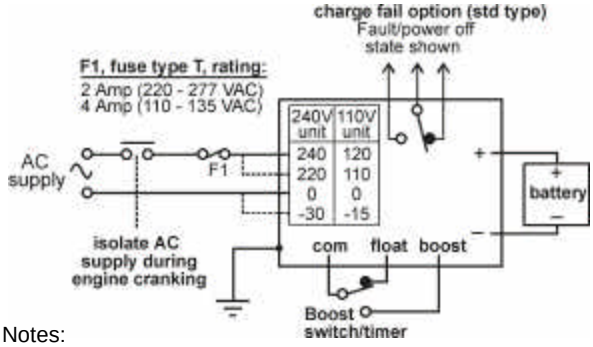
Charge Fail Output:

Relay Type	volt free SPDT contacts relay de-energized on fault
Contact Rating	1A @ 30V,DC (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

Electrical connection



Notes:

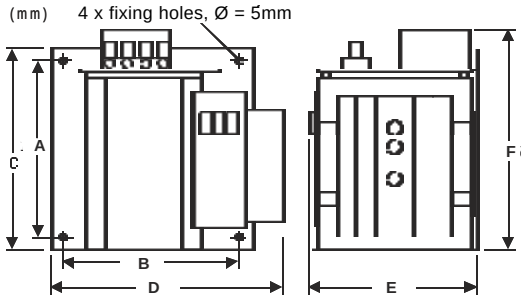
1) battery output is isolated from chassis
2) chassis must be connected to a low impedance earth

Calibration

Battery type		float volts (V,DC)	boost volts (V,DC)
12V	Lead Acid (6 cells)	13.6	14.1
	Ni-Cd (10 cells)	14.2	14.7
24V	Lead Acid (12 Cells)	27.2	28.2
	Ni-Cd (18 Cells)	25.6	26.6
	Ni-Cd (20 Cells)	28.4	29.4

The above are factory standard settings. Specials are available on request.

Dimensions



	9A 24V	16A 12V	15A 24V	30A 12V
A	123	123	140	140
B	125	125	140	140
C	144	144	160	160
D	170	170	185	185
E	118	118	135	135
F	160	160	175	175
Weight	4.5Kg	4.5Kg	7.8Kg	7.8Kg

How to order

When ordering, please specify -

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

	OPTIONS	
	Charge Fail	**Manual Boost**
CF	•	
MB		•

	INPUT VOLTAGE	
CODE	**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 240 V,AC input, 12V@30A, DC output charger, calibrated for a vented lead acid battery, and with the charge fail option.

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