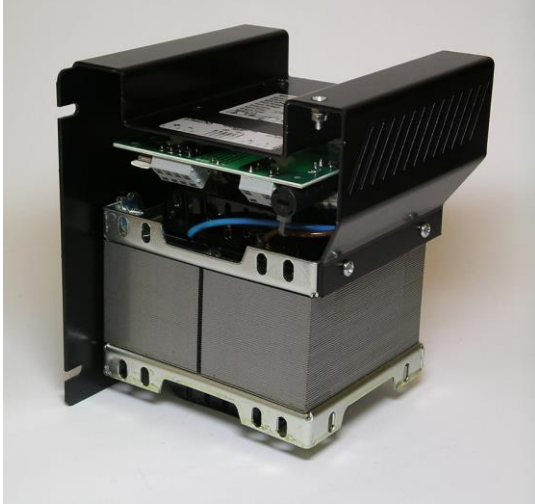


Monitor series

Automatic Battery Chargers



Description

The Monitor range provides fully automatic, heavy duty charging of vented lead acid or NiCd batteries. The chargers may be used in a wide range of industrial battery 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.

Manual boost control

'A' option chargers have an operator-controlled 'boost' mode can be used to temporarily increase output voltage, equalising charge between cells, and improving battery capacity and service life. Control of normal (float) or boost modes is via three terminals, allowing activation by a remotely connected panel switch or relay contacts. An external time relay is recommended to automatically limit excessive boost charging.

Charge fail alarm output

'A' option chargers are also fitted with a self diagnostic 'charge fail' monitoring circuit and output. The SPDT relay output de-energises in the event of a charging fault, for signalling a remote annunciator or alarm system.

Installation and connection

Mounting is via slots in the transformer chassis. Spring clamp terminals provide secure electrical connection to stripped panel wiring. The Monitor is powered from a 110V or 230V AC supply (please specify at order), protected by a circuit board mounted fuse. A self-resetting thermal cut-out protects the DC output from short-circuit or overload conditions.

- **Heavy duty float charging:**
Monitor 200: 12V/16A or 24V/9A
Monitor 360: 12V/30A or 24V/15A
- **Simple, cost-effective design**
- **For vented Lead acid or NiCd batteries**
- **Short circuit and reverse polarity protection**
- **Manual boost and charge fail alarm output options**

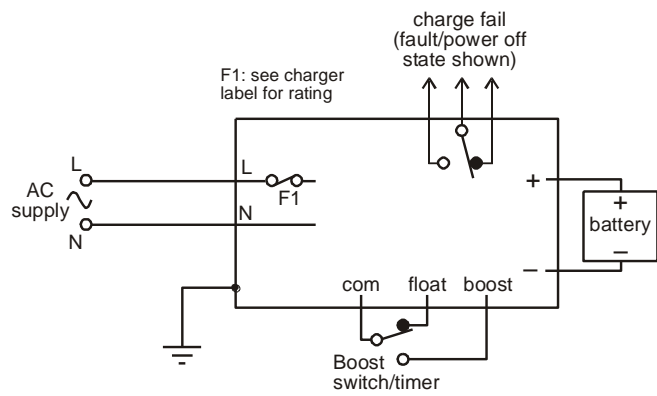
Product specifications

power supply:	Monitor 200	Monitor 360
nominal operating voltages	230 VAC or 110 VAC (specify)	
permissible voltage variation	-10% to + 6% of nominal	
nominal operating frequency	50 / 60 Hz.	
DC charge output:		
maximum current / nominal voltage	12VDC / 16A or 24VDC / 9A	12VDC / 30A or 24VDC / 15A
float/boost voltages	see table overleaf	
charge fail output (CF option):		
relay type	volt free SPDT contacts, relay de-energised on fault	
contact rating	1A @ 30 VDC (resistive load)	
general:		
operating temperature	-10 to +55 °C	
overall dimensions (w x h x d)	see table overleaf	
weight	see table overleaf	
EMC emission / immunity	EN 61000-6-4 / EN61000-6-2	

Warranty

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

Electrical connection



Note: AC supply earth must be connected to an M4 chassis stud. Battery output is isolated from chassis earth.

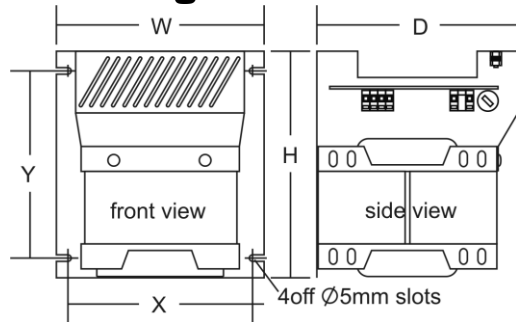
Output calibration

Battery type		float volts (V DC)	boost volts (V DC)
12V	Vented lead acid (6 cells)	13.5	14.1
	Calcium-Calcium (6 cells)	13.8	15.6
	NiCd (10 cells)	14.1	14.5
24V	Vented Lead acid (12 cells)	27.0	28.2
	Calcium-Calcium (12 cells)	27.6	31.2
	NiCd (18 cells)	25.6	26.1
	NiCd (20 cells)	28.2	29.0

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 cells, see our Guardian or Sentinel ranges.

Dimensions & weights



For safe heat dissipation, mount product in orientation shown, with minimum air-gap clearance of 40mm above/below and 25mm at sides.

	MON200 series (mm)	MON360 series (mm)
W	140	157.5
H	161	172.5
D	137	155
X	122	140
Y	125	140.5
Weight	4.8 Kg (10.6 lb)	8.0 Kg (17.6 lb)

How to order

When ordering, please specify:

Product	Nominal o/p voltage, V DC		Nominal output current, A DC			
	12	24	9	15	16	30
M2001216	●				●	
M2002409		●	●			
M3601230	●					●
M3602415		●		●		

Input voltage		
Code	120 VAC	230 VAC
C	●	
D		●

Code	Battery type				
	Vented L/acid	Vented L/acid (Ca-Ca)	10 cell NiCd	18 cell NiCd	20 cell NiCd
LA	●				
CA		●			
10NC			●		
18NC				●	
20NC					●

Options	
Code	charge fail output & manual boost control
A	●

product input volts battery type

The above 4 part number codes must be used

e.g. **M3602415 C NC20**

The above example shows the order code for a 24V/15A charger, with 120VAC input, output calibrated for 20 cell NiCd batteries, without any build option

option

Insert option codes when required, or leave empty for no options

COMPUTRONIC CONTROLS

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