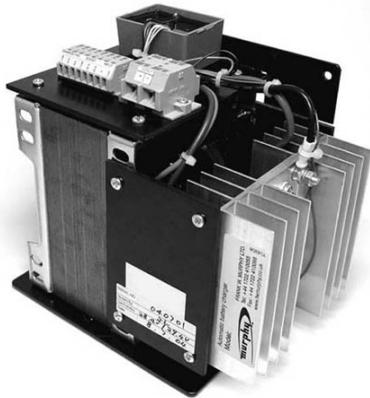


BC1524 and BC3012

Automatic Battery Chargers

ys6307
 revision B, 22nd December 2009
 catalogue section 40



- **Heavy duty float charging: 15A (24V) or 30A (12V) output**
- **Simple, low cost design**
- **Lead acid or Ni-Cd calibrations**
- **Float or boost modes**
- **Charge fail relay output**

Description

The BC1524 and BC3012 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.

A 'boost' operating mode can be used to provide increased voltage output. Selection of normal or boost mode is via three terminals, allowing activation by a remote panel switch or time relay – see calibration table overleaf for float and boost voltage levels.

A self diagnostic 'charge fail' circuit and relay output is provided as standard. The volt free relay de-energises in the event of a charging fault.

Power for the charger is from a 230VAC or 110VAC supply (please specify at order). All electrical connections are to stripped panel wiring via spring-loaded clamp terminals.

Product specification

power supply:	BC1524	BC3012
nominal operating voltages	230 VAC or 110 VAC (specify)	
permissible voltage variation	± 10% of nominal	
nominal operating frequency	50/60 Hz.	
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-energised on fault	
contact rating	1A @ 30 VDC (resistive load)	
general:		
operating temperature	-10 to +55 °C	
overall dimensions (w x h x d)	185 x 175 x 135 mm	
weight	approx. 7.8 Kg	

Warranty

A one year limited warranty on materials and workmanship is given with this Murphy product. Details are available on request and at www.fwmurphy.co.uk/warranty.

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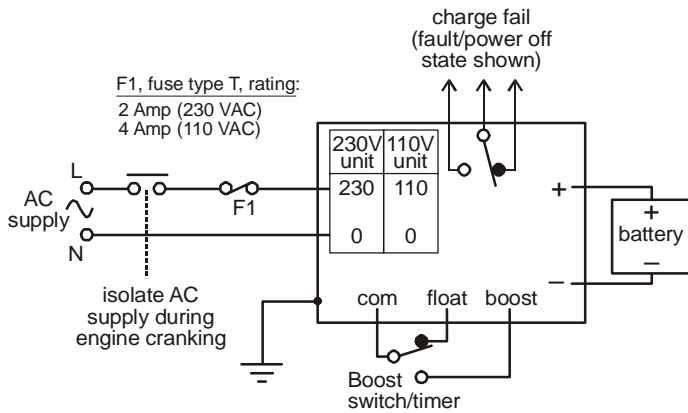
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USA-ISO 9001:2000 FM 28221
 UK-ISO 9001:2000 FM 29422
 Registered Facilities



Electrical connection



Notes:

- 1) battery output is isolated from chassis
- 2) chassis must be connected to a low impedance earth
- 3) charge fail relay output is volt-free

Calibration

Battery type*		float volts (VDC)	boost volts (VDC)
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

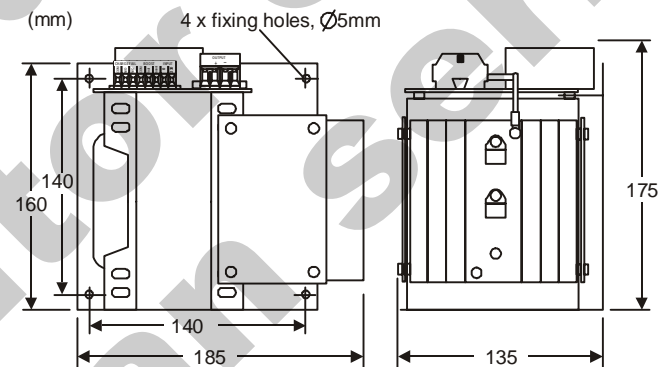
*Note: the BC1524/BC3012 range is designed for use with vented batteries only. These chargers are NOT suitable for valve regulated lead acid (VRLA) or sealed type cells.

How to order

When ordering, please specify:-

Stock Number	Model	Supply voltage, calibration
41.70.0102	BC1524/CLA	110VAC, 24V lead acid
41.70.0103	BC1524/CNC18	110VAC, 18 cell NiCd
41.70.0104	BC1524/CNC20	110VAC, 20 cell NiCd
41.70.0105	BC1524/DLA	230VAC, 24V lead acid
41.70.0106	BC1524/DNC18	230VAC, 18 cell NiCd
41.70.0107	BC1524/DNC20	230VAC, 20 cell NiCd
41.70.0108	BC3012/CLA	110VAC, 12V lead acid
41.70.0109	BC3012/CNC10	110VAC, 10 cell NiCd
41.70.0110	BC3012/DLA	230VAC, 12V lead acid
41.70.0111	BC3012/DNC10	230VAC, 10 cell NiCd

Dimensions



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