

DATA SHEET

BC4 single battery analyser

used to analyse, condition and recharge batteries for SE4x respirators



Updated: 02 Feb 2009

Description:	Battery analyser/conditioner/recharger	
Product name:	BC4 (BC4-C if fitted with optional serial port)	
Use:	The BC4 single battery analyser makes it possible not only to recharge batteries used in the SE4 family of respirators, but also to ascertain the current status of the battery, as well as maintaining the battery in peak condition over long periods of time.	
Supplied AC power:	100–240 V, 50–60 Hz	
DC power (charging mode, max)	21 V, 2.5 A	
Charging current:	2 A	
Post-trickle charging current:	0.2 A	
Pre-trickle recovery current:	0.75 A	
Max critical battery temperature:	+62°C (144°F)	
Max critical PCB temperature:	+95°C (203°F)	
Max allowed charging start temperature:	+32°C (90°F)	
Min allowed charging start temperature:	+5°C (41°F)	
Post-trickle charging duration:	Charged battery (charging cycle <20 min) Discharged battery (charging cycle ≥20 min)	30 min 180 min
Resistance PASS:	Charging Discharging	<600 mohm <800 mohm
Resistance FAIL critical (charging):	>800 mohm	
Maximum allowed voltage during charging:	17 V	

Minimum allowed voltage during charging:	8 V				
Discharge level:	10.5 V				
Discharge current:	1 A				
Emergency cut-off current:	<table border="0"> <tr> <td>Instantaneous (charging state)</td> <td>3 A</td> </tr> <tr> <td>Exceeding set current for more than 8 s</td> <td>200 mA</td> </tr> </table>	Instantaneous (charging state)	3 A	Exceeding set current for more than 8 s	200 mA
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Pre-programmed charging/ discharging cycles:	0-5				