Data Sheet: Battery analyser/conditioner

Analyses, conditions and recharges single batteries

Usage	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.
AC power supply	100 to 240 V, 50 to 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	+61°C
Max critical PCB temperature	+95°C
Max allowed charging start temperature	+32°C
Min allowed charging start temperature	+5°C
Post-trickle charging duration	— Charged battery (charging cycle <20 min): 30 min — Discharged battery (charging cycle >20 min): 180 min
Resistance PASS	— Charging: <600 mohm — Discharging: <800 mohm
Resistance FAIL critical (charging)	>800 mohm

Max allowed voltage during charging	17 V
Min allowed voltage during charging	8 V
Discharge level	10.5 V
Discharge current	1 A
Emergency cut-off current	— Instantaneous (charging state): 3 A — Exceeding set current for more than 8 s: 200 mA
Pre-programmed charging / discharging cycles	1 to 5