



The **CBA IV** is a computerised battery analyser capable of scientifically and accurately analysing any type of battery from coin cells to automotive batteries.

The **CBA IV PRO** includes a calibration chart and is calibrated and tested to guaranteed accuracy levels of <1% Amp load, <0.5% Volts.

The CBA IV PRO features enhanced accuracy over the standard CBA IV, as well as extra inclusions like a calibration chart and a further 1 yr limited commercial use warranty, suitable for professional users.

The CBA IV and CBA IV PRO both provide the following features and benefits:

BATTERY ANALYSIS

- Test any type of battery with presets for NiCd, NiMH, Lead Acid, Lilon, LiPo, Alkaline, Carbon Zinc, Mercury and other battery chemistries.
- True constant current battery capacity test with results graphically displayed (constant power testing supported with extended software upgrade).
- Electronically regulated discharge current using a solid state switch and fan cooled electronic load.
- Solar cell profiling capability - the ability to sweep the solar panel, by varying the load, to see how the panel reacts.
- Lower current testing capabilities - down to 10 mA.

PERFORMANCE

- Tests quickly at real world load conditions, up to 150 watts or 40 amps maximum, whichever is higher.
- High voltage testing at up to 55 volts; the equivalent of 1 to 38 NiCd or NiMH cells.

ACCURACY

- On-board computer performs accurate measurement with 12 bit effective resolution. Auto ranging for 2 current ranges and three voltages.
- Individually calibrated with a computerised calibration system.

SAFETY FEATURES

- Fail safe: automatic protection of temperature, current and power.
- Safety watchdog stops a discharge in the event of a computer crash.
- Discharge test current user selectable from 0 to 40 Amps.
- Automatic voltage shut off at end of test using a software recommended or user selected safe discharge voltage.
- Automatic over-temperature shut off at end of test using a software recommended or user selected maximum temperature with optional external magnetic temperature sensor.

FEATURES WITH STANDARD SOFTWARE

- User selectable battery cell chemistry, number of cells and test current.
- Software recommends safe tests based on user supplied battery information.
- Automatic graph setup and scaling.
- Measures and displays voltage, current, amp-hrs, watts and temperature* (*Requires optional temperature probe and extended software).
- Overlay multiple graphs for easy comparisons that may be displayed, saved and recalled.
- Save, display and print battery test graphs and battery labels.
- Plug and Play high speed USB interface, with easy to use and intuitive Windows® software supplied on CD ROM.

SPECIFICATIONS

Maximum continuous discharge rate:	100 Watts
Maximum limited term discharge rate:	125 Watts (with < 3500 mAh battery)
Maximum limited term discharge rate:	150 Watts (with <1000mAh battery)
0-3 amp accuracy:	typically better than ±10mA
3-40 amp accuracy:	typically better than ±45mA
0-5 volt accuracy:	typically better than ±0.005V
5-15 volt accuracy:	typically better than ±0.01V
10-60 volt accuracy:	typically better than ±0.05V
Max. operating voltage:	55 Volts (48 Volt Lead Acid Telecom supported)
Max. discharge rate:	40 Amps (Battery dependent, 100 Watt continuous)
Min. discharge voltage: (to maintain 30 amps)	0.9 Volts (Battery dependent)
Min. Voltage for a 40 amp discharge:	2 Volts at completion of test (Battery dependant)
Min. discharge rate:	0.01 Amps
Residual current drain:	< 0.003 Amps @ 12V (battery connected while not in use)

One model for all testing ranges.

High performance microcontroller with USB interface and 12 bit A/D conversion. USB powered - does not use the battery being tested to run the CBA or the fan. Bright 'System Ready' and 'Test in Progress' LED indicators. CBA internal over temperature sensing and protection. Graph printing on any standard colour or B&W printer. Battery test label printing on standard 05160 stick-on labels.

CBA IV PACK INCLUDES

CBA IV hardware
150mm pigtail adapter
Standard version CBA software CD
1800mm USB Cable
40 amp fuse
User Manual
1 yr limited home use warranty

CBA IV PRO PACK INCLUDES

CBA IV hardware
150mm pigtail adapter
Standard version CBA software CD
1800mm USB Cable
40 amp fuse
User Manual
Calibration chart
1 yr limited home use warranty
1 yr limited commercial use warranty

OPTIONAL ACCESSORIES (sold separately)

500 watt and 1000 watt amplifiers.
External magnetic temperature sensor.
Extended software with extra features.