



— **ATEQ BCA**
— **Battery Charger Analyzer**
(75 V - 40 Amps or 36 V - 60 Amps versions)



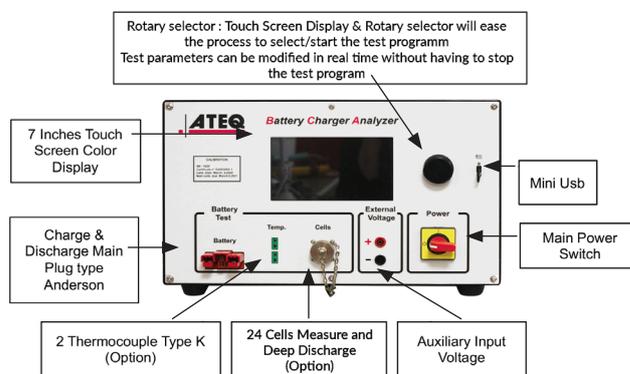
- ➔ USER FRIENDLY INTERFACE
- ➔ 1 UNIT FOR 2 BATTERIES
- ➔ External Voltage measurement
- ➔ Up to 24 cells monitoring
- ➔ Computer Management System available



MCMS SOFTWARE FEATURES

FUNCTION	CHARACTERISTICS
Charging phase	<ul style="list-style-type: none"> - Constant or variable Intensity/Voltage - Adjustable from PC, profile, EXCEL file - On I constant, or variable, limit U max, $-\Delta V$, time, temperature min and max, $\Delta T^\circ/\Delta t$ - On U constant, or variable, limit I min, times ΔI (%), temperature min and max, $\Delta T^\circ/\Delta t$ - Temp. protection probe type K, adjustable - Elements voltage measurements and stop or stand by on elements voltage
Discharging phase	<ul style="list-style-type: none"> - Constant or variable Intensity - Adjustable from PC, profile, EXCEL file - U min limit, time, temp. min and max, $\Delta T^\circ/\Delta t$ - Temp. protection probe type K, adjustable - Elements voltage measurements and stop or stand by on elements voltage - Automatic deep discharge
Stand by phase	- Stand by period adjustable from PC
Cycle	<ul style="list-style-type: none"> - Choice of phases totally adjustable from PC - In chronological order or according to conditions - Repeat cycles - Sequence of cycles with different phases
Status of channels	- Permanent display of battery status, colour code
Status of test	- Permanent display of data regarding current phase
Errors message and observations	<ul style="list-style-type: none"> - Error message display - Automatic storage of all errors during test - Send by email: errors, observations, message
Blank play	- Check up of all contacts before test lanch
Pause, Stop	- Possibility to pause/stop during the test
Delayed or immediate start	- Select time and date for test start
Results	<ul style="list-style-type: none"> - Data on test performed and tested battery - Plan voltage, intensity, temperature - Restored or absorbed capacity (% and Ah) - Voltage, Intesity and temperature at the beginning and at the end of phase - Events happened during the selected phase - Voltage of each battery elements - Average, Min and Max of element voltage
Phase filing	<ul style="list-style-type: none"> - Automatic filing at the end of each phase (all data, history \rightarrow traceability) - Save current data if error encountered - Archives in network - Consultation of archives between different benches
Print	<ul style="list-style-type: none"> - Automatic print of results at the end of test - Print on demand of the result of one battery for one phase (modification of axes available) - Possibility to print voltage acquisitions
Display	<ul style="list-style-type: none"> - Display of I, U, T° for each channel in test - Display zoom on curves - Display of each channel in test results - Display of elements tension
Intermittent	- Choice of step between prints in automatic mode printing
Inverter	- Protection and saving of all data during power cut
Alarm	- Buzzer for check-up level of electrolyte, temperature defect
Element voltage	- Individual measurement of each battery element voltage
Export data	- To EXCEL

DESCRIPTION



MAIN FEATURES

2 Batteries in charge mode
Main powers available are indicative ones (Voltage and intensity in charge and discharge on each channel can be adapted upon request)
Immediate or delayed test start
Control of voltages under 16 bits
Temperature Measurement with type K thermocouples
Alarm for electrolyte level
Shut down at predefined voltages Min, Max or delta V
Shut down as a function of time - Protection against temperature defect
Set up of multiple cycles and / or sequences
Printing and automatic filing of data at the end of the test
Data protection and results saving and backup in case of power shutdown
Test result storage and research by user defined criteria
Curves drawing per phase
7 Inch Touch screen color display
Temperature measurement with thermocouple sensor Type K
Charge & discharge main plug type Anderson
24 cells voltage measurement
Languages: Chinese, English, French, Russian
Computer connections: USB port, RS485
Fuse protection kit

OPTIONAL

Connection systems for battery elements voltage, measurement or deep discharge

ELECTRICAL SPECIFICATIONS

General Electrical characteristics

Sector input:	100-240 VAC Monophased
Frequency:	50-60Hz
Temperature of use:	0-50°C (0-20°C without derating)
Storage temperature:	-20 to +70°C
Cooling:	By forced ventilation
PN EZ-0232 version:	Dimension: 380 x 440 x 265 mm
	Weight: ~26 kg

Power supply characteristics at constant voltage (charging)

Output voltage:	0-72 Vdc per channel 0-36 Vdc per channel
Regulation:	0,1 % for a variation of I from 10 to 90 %
Stability:	0,1 % at full charge for 8H

Power supply characteristics at constant current (charging)

Output current:	0-40 Adc 0-60 Adc
Regulation:	0,1 % for a variation of U from 10 to 90 %
Stability:	0,1 % at full charge for 8H

Characteristics of the electronic charge (discharging)

Max Power:	1500 W
Absorbed current:	0-60 Adc
Max voltage accepted:	75 Vdc
Regulation in constant current:	0,1 % for a variation of U from 10 to 90 %
Stability:	0,1 % at full charge for 8H

As a sum up

The BCA is a Battery Charger Analyzer designed to Charge, Discharge and Analyze all types of battery chemistry in the Aviation industry. It is housed in a metal enclosure with a 7 inch touchscreen control display. All settings and data can be entered via the touchscreen. It is a very easy-to-use and versatile instrument that comes in 2 versions the BCA 75 Volts / 40 Amps or the BCA 36 Volts / 60 Amps.

The BCA 75 Volts / 40 Amps can charge two batteries simultaneously. These are the characteristics of both variants:

BCA version 75 Volts / 40 Amps

- 75 Volts max charge and discharge
- 40 Amps max charge
- 60 Amps max discharge
- Charging 2 batteries - 37.5 Volts each max

Gauge input characteristics

Voltage Measurement

Range	Accuracy
+/- 80 Vdc.	+/- 0.05 % Max of reading (+-0,01V)

Current Measurement

Range	Accuracy
+ 60 Adc.	+/- 0.2 % Max of PE

Cell voltage - 24 cells (Option)

Range	Accuracy
+/-10 Vdc	+/- 0.05 % Max of PE

Auxiliary Input Voltage (AutoRange)

Range	Accuracy
0-85 Vdc.	+/- 0.05 % Max of Reading

Temperature (Option)

Range	Accuracy
0 to 100 °C (type K thermocouple sensor)	+/- 5°C (apart from sensor)

BCA version 36 Volts / 60 Amps

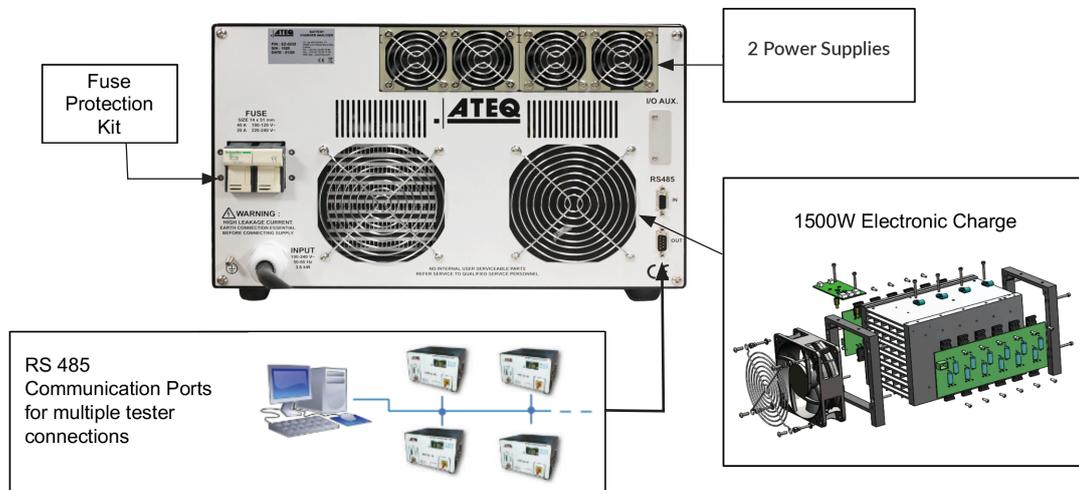
- 36 Volts max charge and discharge
- 60 Amps max charge and discharge
- Single Battery Charge for 36-60 mode

A FULL RANGE OF SERVICES DEDICATED TO YOUR PERFORMANCE

OUTSTANDING SERVICE

Global service & calibration support, 2-day calibration
 Multi-brand Calibration Service
 Demo unit rental
 Training
 Maintenance & Repair
 Free loan period
 Multi-brand Calibration Service

➔ More information & Local contact on ateq-aviation.com



Deep Discharge
 Up to 24 cells with a 1 Ohm resistance.

Cells Measurement
 Cover to measure up to 24 Cells voltage.
 Souriau connector available on the front panel.

