Deliver professional service with

αBat

battery and charger testers.

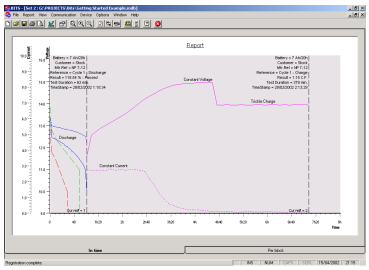
- Our αBat is the perfect tool for guaranteeing that your products and services will meet your customer's expectations.
- The αBat is the most accurate capacity tester in its price category. It works by discharging the battery and recording the voltage and current over time.
- While charging, all the important parameters are monitored and recorded.
- Microprocessor-controlled.
- Tests both 6V and 12V batteries.
- High quality, supremely reliable.
- 24V chargers can also be tested.
- Different battery technologies can be tested: traditional lead-acid batteries, AGM, gel, etc.
- Far more accurate than unreliable impedance testers.

Applications

- Service
- Quality control
- Goods inwards inspection
- Routine checks

Disputes are ruled out – professionalism guaranteed!

Here you can see a graph of a report made with BITS software (supplied with the tester).



Example: This report gives your customer a professional answer to the 'autonomy' problem he is experiencing with his machine.

The αBat offers a wide range of possibilities

- Create a *profile* with your preferred settings and choose one to make a test.
- *Four* built-in functions: single cycle capacity test, multiple cycle capacity test, charger test, and voltage recorder.
- The *LCD* shows you why the battery/charger is defective:
  1. The battery needs charging prior to running the test.
  2. The capacity of the battery is insufficient.
  3. The battery has a short circuited cell or another internal failure (manufacturing fault)
  4. The charger undercharges/overcharges the battery.
- The LCD shows the capacity of the battery as a percentage.
- The battery capacity can be adjusted between 0.8 and 100 Ah_{20h} (or max 400 Ah_{20h} on the αBat Pro).
- The αBAT can easily be connected to a computer for analysis of all the data. The software is very user-friendly and will give an accurate assessment of the battery capacity or charger quality. You can print reports to justify battery or charger replacement.

Why is battery capacity so important?

When a battery doesn't have enough capacity, it is quite possible that it will be unable to withstand a normal day's operation. All batteries have a rated capacity. An acceptable operating range in most applications is 60% of its rated capacity. The capacity will vary depending upon the age and quality of the battery.

Why is charger quality so important?

The lifetime of a battery will be reduced if it is not recharged properly.

The αBAT detects overcharging (causing the battery to overheat and damage the plates) and undercharging (causing sulphation build-up in the battery).

Why do you need the αBAT?

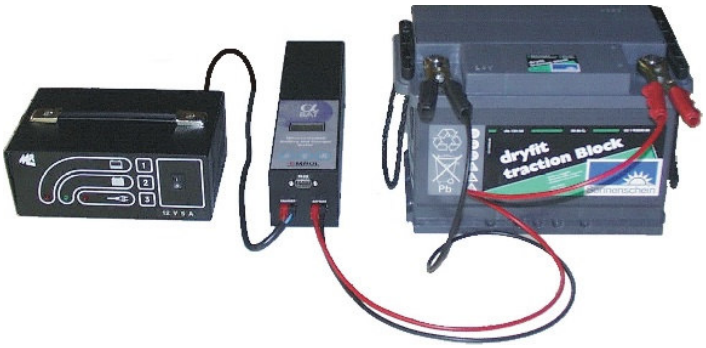
- It confirms the quality of the batteries you are selling.
- Improves your customer service and professionalism.
- Eliminates malfunctions due to the battery.
- Repays your investment by distinguishing between an empty battery and a defective battery.

Documentation – Justification – Professionalism.

There is now a tool that graphically demonstrates the qualities of your service department, while at the same time ruling out misdiagnoses that cost you money!

Test setup.

Below you can see a typical test setup which permits successive discharge and recharge of a battery over several cycles.



More Information !

The Emrol website is updated regularly and presents a number of opportunities to explore the AlfaBat. Give it a try, simply point your browser to http://www.emrol.com

Available models

There is an αBat for every application:

	αBat	αBat Pro
Battery capacity range	0.8 ➔ 100 Ah	0.8 ➔ 400 Ah
Battery voltage	6V / 12V	6V / 12V
Discharge current	Max. 10A	Max. 30A
Max. charge current	15A	50A
Size in mm (L x W x H)	310 x 75 x 77	375 x 145 x 135
Weight (kg)	2.5	4.5

Characteristics:

Take a look at the possibilities of this device and you will understand how it could benefit your professionalism!

- The αBat has a self-diagnostic function.
- It permits you to store several tests in its memory with an automatic date and time stamp.
- It uses a dynamic algorithm to detect a bad cell in a battery (manufacturing fault).
- Two terminals for battery and charger connections, which allow different customer-specific leads and connectors to be used.
- Battery temperature compensation.
- Maximum accuracy using Peukert calculations.
- communication with PC via DB-9 connector (COM port).
- A charger can be connected to recharge the battery after the test.
- B.I.T.S. (Battery Information & Test System) is the software supplied with the tester (Windows 95/98/NT/2000 compatible), which makes the set complete and gives the user the following additional options:
  - Store and print test results on your PC
  - Use of the computer as a remote control for the device.
  - Record your measurements in real time on your PC.
  - Create and download profiles and settings for the device.
  - Enter a new program code (firmware) into the device.

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