

AlfaBat PRO

Battery Capacity Tester



Deliver Professional Service with the AlfaBat PRO

The AlfaBat PRO is the perfect tool for guaranteeing that your products and services will meet your customer's expectations. It is the most accurate capacity tester in its price category. It works by automatically discharging the battery and recording the voltage and current over time. While charging, all important parameters are monitored and recorded. When the test is complete, results are shown on the LCD display. A simple capacity test can be performed within 5 minutes of receiving the device. You can also test for run-time based on a particular current load.

Applications

Golf Carts, Mobility, Floor Scrubbers and Sweepers, Aerial Work Platforms, Recreational Vehicles, Marine, Alarm Systems, UPS, Electric Vehicles, Renewable Energy, Traffic Signals, R&D

▶ **Every Equipment Service, Battery Quality Control and Warranty Department should have an AlfaBat PRO!**

AlfaBat PRO capabilities

Create a profile with your preferred settings. Store 3 profiles on the device and choose one to make a test. Create an unlimited number of profiles to store on your computer.

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 400 Ah20h.

Discharge current can be set from 3.0 amps to 30.0 amps in 0.2a increments.

The AlfaBat PRO 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 to customers.

- ▶ **Microprocessor controlled**
- ▶ **Tests 6V, 8V and 12V batteries**
- ▶ **High quality, supremely reliable**
- ▶ **Different battery technologies can be tested: flooded, gel or agm batteries**
- ▶ **Far more accurate than unreliable impedance testers**
- ▶ **Simple enough for any user, but also programmable for advanced technicians**

AlfaBat PRO benefits

- Has a self-diagnostic function.
- Allows you to store tests in its memory with an automatic date and time stamp.
- Uses a dynamic algorithm to detect a bad cell in a battery (manufacturing fault).
- Common battery connection (SB50 Red) and charger connection (SB50 Grey) allow different customer-specific leads and connectors to be easily adapted for use.
- Battery temperature compensation.
- Maximize accuracy using Peukert calculations.
- Communication with PC via USB connector (COM port).
- A charger can be connected to recharge the battery after a discharge test.
- BITS (Battery Information & Test System) is the software supplied with the tester (Windows 95/98/NT/2000/Vista/7/8 compatible), which gives the user the following additional options:
 - Store and print test results using your PC.
 - Use your PC as a remote control for the device.
 - View and 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.

BTi

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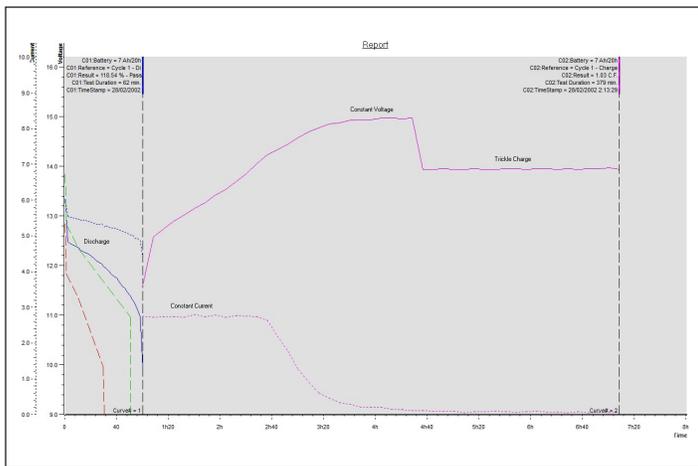
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Eliminate disputes and gain professionalism with documentation and justification

Now you have a tool that graphically demonstrates the qualities of your service department, while at the same time ruling out misdiagnoses that cost you money. Here you can see a graph of a report made with the BITS software that's included with the AlfaBat PRO.

Example: This report gives your customer a professional answer to the "short run time" problem experienced with their battery equipment. Here the report shows that the battery has a capacity of 118% of its rating and the charger provides a charge factor of 1.15.



Why is battery capacity so important?

When a battery doesn't have enough capacity, it's 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 AlfaBat PRO detects overcharging which causes the battery to overheat and damage the plates. It can also detect undercharging which causes sulphation build-up in the battery.

Why do you need the AlfaBat PRO?

- It confirms the quality of the batteries you are selling.
- It improves your service and professionalism.
- It eliminates equipment malfunctions due to the battery.
- It repays your investment by distinguishing between a weak battery and a defective battery.

Test setup

Below you can see a typical test setup which permits successive discharges and recharges of a 12V battery.



AlfaBat PRO

Battery capacity range ... 0.8 - 400 Ah (C20)

Battery voltage 6V / 8V / 12V

Discharge current 3a - 30a (0.2a increments)

Max. charger current 50A

Dimensions (l x w x h) 14 3/4 x 5 3/4 x 5 1/3" / 375 x 145 x 135mm

Weight 9.9 lbs / 4.5 kg

Each AlfaBat PRO comes with a battery test cable with clips, BITS software on CD, AC adaptor for charger tests, USB cable for computer connection and a quick start guide. Charger connector and cables not included. Tested to comply with FCC Standards. AC adaptor is cULus Listed.

About BTI

Brierly Technologies, Inc. has more than 22 years of experience in increasing battery performance, service life and customer satisfaction. In addition to Battery Testers, BTI also supplies Battery Chargers and a variety of accessories including, Battery Level Meters, Connectors, Battery Master Switches and Key Switches.



For our complete product line-up, visit www.bti-chargers.com