

WARNING

1. **During operation, the aluminium casing may become hot (up to 55 °) - Do not** cover ventilation holes. The Tester requires free passage of air surrounding it to function normally and safely. Ensure the Tester is placed on a heat-proof surface at all times.
2. **Do not** use or leave the Tester in the rain or very damp or humid conditions.
3. **Do not** connect the Tester to a voltage greater than 29.5V.
4. **Batteries must be disconnected from the vehicle prior to connecting to the tester.**
5. **Do not** use any instruments to operate the Tester (either blunt, sharp or pointed) - **only** use the pads of your fingers to operate. Any damage caused by improper use will not be covered by the warranty.
6. Insert the plugs of the connecting cables firmly and fully into the socket of the Tester. All supplied leads **must be** securely connected - pushed into the ports and/or any clips attached to the battery terminals (not the bolts). Failure to do so will cause inaccurate test results and is likely to damage the Tester.
7. **Only use the cables supplied with the tester. Do not** use any cables which are damaged or not in good condition.
8. Ensure connection to correct polarity at all times.

**nb* just as for charging batteries, testing the batteries may take some time, please be patient and allow the tester to operate as it is designed*

Titan Simple Tester is Made in Poland
24 Months Warranty



TITAN SIMPLE TESTER

Instructions for Use



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CONTENTS SUPPLIED:

TITAN SIMPLE TESTER

USB CABLE (TO CONNECT TESTER TO PC - WIN7 & ABOVE)

LITHIUM CABLE (TO CONNECT TESTER TO LITHIUM BATTERY PACKS)

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The Titan Simple Tester is designed primarily for use with Lithium Ion technology. Standard batteries can also be tested for which additional cables will be required (not supplied).

- Tests 12V & 24V batteries with capacities from 4.0Ah to 29.8Ah.
- The battery test is carried out by discharging a constant resistance, fully charged battery.
- The measured capacity takes into account Peukert's equation of changing the capacity depending on the size of the discharge current, relative to the nominal capacity of the battery.
- Data from the last test is stored in the Tester memory and can be read until overwritten by the next test.
- Charger Ah supplied to the battery is calculated to provide actual final capacity.

Technical Specifications

Dimensions	105 w x 57 h x 170 l (mm)
Power Supply	- via a power pack (or USB to PC)
Max Battery Testing Capacity	- 29.8 Ah
Minimum Testing Capacity	- 4 Ah
Maximum Discharge Current	- 7 A
Maximum Current Charge	- 9 A
Battery Testing Voltage	- 12V and 24V
Results Display Accuracy	- increments of 0.2
Results Accuracy	- +/- 2.0 %
Tester Weight	- 0.7 kg

Instructions for Use

1. Remove all packaging before use.
2. Connect the Tester to the battery using the correct polarity (right socket, below) and wait for the battery voltage to appear on the screen.

The Tester will automatically turn on.



3. Connect the original product charger for the test battery (12V/24V) to the left socket.
 4. Press the Type 12V/24V button and use the Plus/Minus buttons to scroll through the available battery type and voltage selections. Press Type 12V/24V button again to confirm your selection.

5. Next, set the nominal capacity of the test battery. Press the Capacity button, then press and hold the Plus/Minus buttons to cycle through the values. Press the Capacity button again to save the setting.

***Caution* Battery Type/Capacity settings are saved after each use - check each time you use**

6. Press the Test AUTO button (battery capacity test), or Test CHARG (charger capacity test) - then press Plus/Minus to start the test.

CHARG Test

The battery is charged with a current dependent on the charger and, at the same time, data such as voltage and charging current are saved every minute. The Tester calculates the value of Ah supplied to the battery by the charger. The display shows what current the charger is charging and what the current battery voltage is. The test ends when the charging current drops below 0.9A

AUTO Test

After starting the test, the battery is fully charged depending on the charger used, until the current is below 0.9A. Then the discharge cycle begins with a constant

resistance, 7A current, until the battery reaches the minimum permissible voltage level. During discharge, data such as voltage and discharge current are saved every minute. Next stage, the battery is charged again and the capacity of the battery is recalculated taking into account the correction for the nominal capacity set. The capacity will be displayed on the screen after the test and charging.

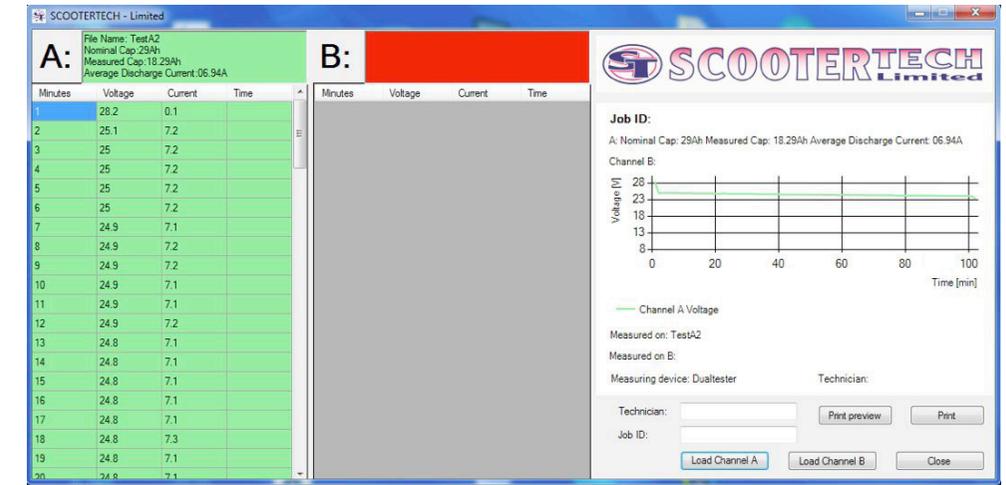
Chart & Test Data

After the test has been completed, the data from the last test is stored in the Tester memory and will remain even when the Tester is not connected. The data can be read using the tester software on computer and then saved to disk or viewed in the Titan Simple program. Connect the device to the computer via the USB cable and wait until drivers are installed. *Note* - the software only supports Win7 and above. After installing USB drivers, run the TitanSimple.exe program, a window will appear with three buttons at the bottom (see below):



COM - if you do not know the port number com to which the Tester has been assigned, click on this button. The port number will be shown in a new window - enter this number in the Program window and click the middle Start button. After reading Tester data, a new window will appear to save the file. Leave the destination as default, or choose to save somewhere else, but you must give it a filename. The filename must start with "TestA" (e.g. TestA_battery_scooter1).

The next window will appear asking if you would like to open the program in which you can view the test results saved. If you choose this option, the Titan program will open. Load the data by clicking Load Channel A and selecting the name of the test saved. You can now see the graph, complete the information and print as required.



The Titan Simple Tester from Scootertech Limited - Essential Equipment

*specifications and instructions subject to change at any time without notice - see www.scootertech.co.uk for the latest information E&O