

(E.g. for a 100 Ah battery: 100 Ah x 1/20 = 5 A.)

NO

The battery has been damaged by

insufficient charging and/or deep

including the regulator voltage,

alternator and drive belt.

discharging, so cannot be returned.

Check the vehicle's electrical systems,

**YES** Fully charge the battery and continue to

result of normal wear and tear.

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either Step 3A or 3B. If the specific gravity

reading is still 1.24 kg/dm<sup>3</sup> or less once

the battery is fully charged, it cannot be

returned as the reduced reading is the

The starting power represents the difference between the low-temperature testing current entered into the machine and the current that the machine actually measures. It can exceed 100%.

\*About returns: You can get the full returns procedure and warranty conditions from your VARTA representative, but the key points to remember are: 1. Battery replacements under warranty can't be made as result of: 2. Of course, the period of use, temperatures and the application of the battery play a crucial role in determining whether it reaches its maximum service life. We'll bear this in mind when authorising Normal wear and tear.
Failure to follow the instruction manual.

- Negligent and improper storage, usage or installation. Unauthorised modifications to the battery.

a return

Only conduct this test if the specific gravity is even and at least 1.25 kg/dm<sup>3</sup>; otherwise charge the battery first. Refer to the battery tester's instruction manual when testing.

For discharge testers with adjustable resistances: test the battery at approximately three times the battery's nominal capacity for around 10 seconds (e.g. a 12 V, 45 Ah battery should be tested with a load current of approx. 135 A). During the test, there should be no

NO The battery is in good working order.

also nps pe the	For ignition and lights batteries (especially VARTA <sup>®</sup> Gel), 3 x K 5 gives the approximate possible cold start current.
	If the device only has one setting based on the old German standard, the EU standard current can be used to determine the current of the German standard: current = EN current x 0.6.
	If the temperature falls below 0°C, it's necessary to compensate accordingly.

First, check that the measuring cable is properly connected. If it is, the battery may be deeply discharged. Charge the battery and repeat the test. If conducting the test in the vehicle, turn off all

Electronic testing devices are only suitable for batteries that have been in use for a certain period of time. They cannot provide any indication of the performance of new or unused batteries. For this reason, VARTA recommends confirming the nominal figures by conducting the tests as detailed in the EN 50342 standard.