



Keep your batteries in good condition

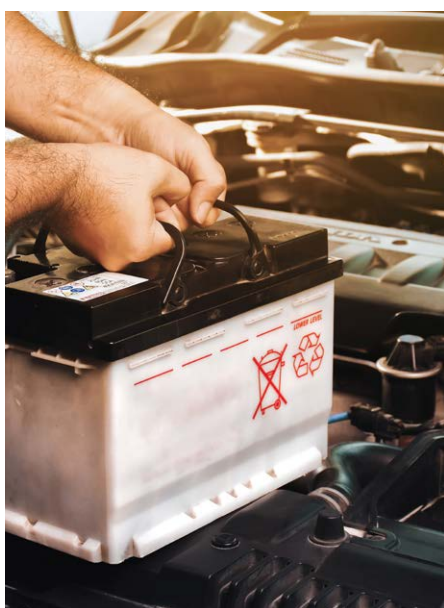
Features

Sonel BT-120 tester is a measuring tool that allows you to accurately test a wide range of battery parameters to ensure optimal battery performance. Designed for both professionals and home users, BT-120 tester is a vital support for keeping batteries in excellent condition.

Sonel BT-120 tester is a reliable tool that provides accurate measurements and precise information about the condition of the battery. It allows to:

- monitor the performance of batteries and avoid unpleasant surprises related to their improper operation,
- make informed decisions about the continued use of batteries or their replacement, based on internal impedance measurements,
- ensure reliable power supply in a wide range of applications, from vehicles to emergency power systems,
- identify potential problems, such as improper charging or cell damage, by measuring the ripple voltage.

With Sonel BT-120 tester, you can rest assured that your batteries are operating at full capacity, delivering power when you need it. Find optimal power solutions for your devices with a tester that offers reliable measurements and precise information.



AC/DC current measurements

The tester can accurately measure AC and DC current up to 400 A. This is crucial to assess the battery's ability to deliver power and identify any problems with current flow.

AC/DC voltage measurements

BT-120 allows you to measure both AC and DC voltage, up to 500 volts. This is important for monitoring voltage stability and matching battery voltage to the requirements of powered devices.

Internal impedance measurement

Internal impedance is an indicator of the battery's condition. The tester allows you to measure this value, which allows you to assess the condition of the battery and make informed decisions about its further use.

Ripple voltage measurement

Measuring the ripple voltage down to 5 V identifies potential problems, such as cell damage or improper charging. This is crucial to maintaining battery performance.

Industry versatility

BT-120 is used in a wide range of industries, from automotive and electrical to renewable energy and telecommunications. It's a tool for professionals concerned about power reliability and efficiency.

Specifications

Measurement functions	Display range	Resolution	Accuracy ±(% m.v. + digits)
Internal resistance	0...300 Ω	from 1 μΩ	from ±(0.5% m.v. + 10 digits)
Voltage			
DC voltage	0...500 V	from 0.001 V	±(0.5% m.v. + 5 digits)
AC voltage	0...500 V	0.1 V	±(0.75% m.v. + 5 digits)
Ripple voltage	0...5 V	0.001 V	±(2.5% m.v. + 10 digits)
Current			
DC current	0...400 A	from 0.001 A	±(0.5% m.v. + 5 digits)
AC current	0...400 A	from 0.001 A	±(0.75% m.v. + 10 digits)
Temperature	-10...100°C	0.1°C	±(1% m.v. + 2 digits)

"m.v." - measured value

Other technical data

Safety and work conditions

Type of insulation acc. to EN 61010-1 and IEC 61557	double
Measuring category acc. to EN 61010	CAT III 500 V
Ingress protection	IP54
Power supply	
• mains	AC 100 V...240 V, 50 Hz / 60 Hz
• rechargeable battery	Li-Ion >5.4 Ah
Dimensions	232 x 192 x 111 mm
Weight	1.4 kg
Operating temperature	0...+50°C
Storage temperature	-20...+50°C
Humidity	10...85%
Display	graphical LCD
Altitude a.s.l.	<2000 m

Other information

Quality standard – development, design and production	ISO 9001
The product meets the EMC (emission for industrial environment) requirements according to standards	EN 61326-1 EN 61326-2-2

Standard accessories



Set of cables for measuring internal impedance

WAPRZBT120ZS



Set of cables for voltage measurement

WAPRZBT120U



Adapter for data transmission (USB)

WAADABTUSB1



C-130BE measuring clamp

WACEG130BE



L-17 carrying case

WAFUTL17



Z-34 power supply

WAZASZ34



Calibration resistor

WAADARK1



Declaration of verification