index: WMGBBT120







# **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.

page 1/3 sonel.com



#### **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.

0.1°C

±(1% m.v. + 2 digits)

Measurement functions	Display range	Resolution	Accuracy ±(% m.v. + digits)
Internal resistance	0300 Ω	from 1 μΩ	from ±(0.5% m.v. + 10 digits)
Voltage			
DC voltage	0500 V	from 0.001 V	±(0.5% m.v. + 5 digits)
AC voltage	0500 V	0.1 V	±(0.75% m.v. + 5 digits)
Ripple voltage	05 V	0.001 V	±(2.5% m.v. + 10 digits)
Current			
DC current	0400 A	from 0.001 A	±(0.5% m.v. + 5 digits)
AC current	0400 A	from 0.001 A	±(0.75% m.v. + 10 digits)

"m.v." - measured value

Temperature

**Specifications** 

page 2/3 sonel.com

-10...100°C

# Other technical data

#### Safety and work conditions

double	
double	
CAT III 500 V	
IP54	
AC 100 V240 V, 50 Hz / 60 Hz	
Li-Ion >5.4 Ah	
232 x 192 x 111 mm	
1.4 kg	
0+50°C	
-20+50°C	
1085%	
graphical LCD	
<2000 m	
ISO 9001	
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

WACEGC130BE



L-17 carrying case

WAFUTL17



Z-34 power supply

WAZASZ34



Calibration resistor
WAADARK1



Declaration of verification

page 3/3 sonel.com