

ABT-301 Battery Condition Analyzer

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amperis

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The ABT-301 Battery Tester is very effective and economical battery management device for testing battery internal resistance (or conductance) and voltage. It helps you eliminate weak batteries to ensure performance of your battery systems. It is capable for accurate measurement of Valve Regulated Lead Acid (VRLA), Vented Lead Acid (VLA) batteries and Ni-cd batteries which are the main composition of standby critical power systems. This battery tester is widely applied for service providers, operations and maintenance teams for battery management and measurement to ensure power integrity in telecom networks, data center, power utility, forklift maintenance and so on.

Unique advantages:

- One unit in two, smart switch to measure both internal resistance and conductance of batteries.
- Wide test range up to 6000Ah for Lead-Acid or Nickel-Cadmium single battery which is up to 16V
- Field proven accurate and repeatable measurement to identify battery health.
- Very fast and consistent measurement of battery or multiple batteries (with setting once) in seconds
- It adopts advanced measurement way of AC signal discharge to test internal resistance or conductance
- User friendly TFT touch screen and key pad as alternative operation
- Big memory for measurement data storage of more than 100,000 cells
- Universal micro USB for data exportation and also tester charge
- Functional PC battery management software for recording of full battery info and easy report print out.
- Battery pack is durable in the field with testing time of 8-12 hours

Application compatibility:

- Telecom & communication power
- Uninterrupted Power Supplies (UPS)
- Utility transmission and distribution systems
- Data, healthcare, education or financial
- Forklift battery maintenance
- Refinery, mining and offshore platform

Software Features:



Data View software provide smart solutions for data analysis, battery condition tracking and report printing. This is software is also expandable for battery management along with other battery test equipments.

Hardware Features:



Quick plug-in connector for testing clamp or pin probe on top of the main unit



Universal micro USB for firmware update, data exportation and internal battery charging.




Optional pin probe for quick test of batteries with small contact surface of battery posts.


Technical specifications of the ABT -301 Battery Condition Analyzer:

Model Numbers	ABT-301P (Base Kit with pin probe) ABT-301T (Base Kit with testing clamp) ABT-301C (Complete Kit with both pin probe and testing clamp)	Cable Options	<ul style="list-style-type: none"> • Pin probe • Test Clamp • Custom cables by quotation
Applications	Test single Lead-Acid or Nickel-Cadmium cell or battery string (one by one after setting once). Cell types supported: 1.2V, 2V, 6V, 12V and other customized types up to 6000Ah.	Power Supply	Li-ion battery (4000mAh), 8~12hours working time after full charge
Voltage	0.000V–25V DC	Display	272*480 pixel, 4.3”TFT Touch Screen LCD
Resistance	0.001 mΩ--100mΩ	Data Transfer	USB via micro USB cable
Conductance	100 - 19,990 Siemens	Operation Environment	0~40°C, 90% relative humidity, non-condensing
Test data storage	100,000 cells stored internally, unlimited with USB drive exportation	Storage Temperature	-20~50°C
Accuracy	Resistance/Conductance: 1% Voltage: 0.15%	Over Voltage Protection	<ul style="list-style-type: none"> • Auto-reset disconnect • Reverse polarity protected
Voltmeter	1mV	Housing Material	Acid resistant ABS plastic santoprene overmold
User Programmable Functions	<ul style="list-style-type: none"> • Customized battery types • Low voltage alarm setting • High resistance alarm setting • Test mode (push button/touch screen/auto start) 	Tester Dimensions	L186*W98*H40 mm
		Analyzer Weight	0.45KG
		Shipping Weight	Approximately 2.8Kg



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