UNI-T®

UT677 Series

Battery Internal Resistance Tester

The UT677 series are devices for assessing the condition of rechargeable batteries, including lead-acid and lithium types, by measuring their internal resistance and voltage. Using the AC four-terminal method, it accurately measures internal resistance without interference from lead resistance. Features include data storage, retrieval, alarms, auto shut-off, and strong anti-interference, making it essential for battery production, installation, and maintenance.

- Battery internal resistance
- Voltage test
- Data storage (up to 500 sets)
- Bluetooth APP
- PC software analysis
- Rechargeable battery

Specifications			
Function	**UT677A+**	**UT677C**	**Resolution**
Battery internal resistance	0.000mΩ~3mΩ / ±1%fs. ±20dgt	0.000mΩ~3mΩ / ±1%fs. ±20dgt	1uΩ
	3.000mΩ~30mΩ / ±0.5%fs. ±15dgt.	3.000mΩ~30mΩ / ±0.5%fs. ±15dgt.	10uΩ
	3.000mΩ~300mΩ / ±0.5%fs. ±15dgt.	3.000mΩ~300mΩ / ±0.5%fs. ±15dgt.	100uΩ
	300mΩ~3Ω / ±0.5%fs. ±15dgt.	300mΩ~3Ω / ±0.5%fs. ±15dgt.	100mΩ
Battery voltage range	0.000V~±7V / ±0.2%fs. ±10dgt.	0.000V~±7V / ±0.2%fs. ±10dgt.	1mV
	7 V~±71.00V/ ±0.2%fs. ±10dgt.	7 V~100.00V/ ±0.2%fs. ±10dgt	10mV
	N/A	100V~120.00V/ ±0.2%fs. ±10dgt/100mV	100mV

Features	
Function	1, Battery internal resistance measurement; 2, Battery voltage measurement
Battery types	Lead-acid battery, lithium battery, and other types of batteries.
Measurement methods	Internal resistance: 1kHz AC 4-terminal test method; Open circuit terminal voltage: 3V max
	Test Current: 2.0mA~200mA (Varying range correspond to varying test currents.)
	refresh rate: 5times/s
Anti interference	Yes, Automatic frequency tuning: 920Hz~1080Hz
Power supply	DC 11.1V lithium battery 2600mAh
Max input voltage	DC 120V (between positive side and negative side)
Response time	200ms
Screen	3.5" (480 x 320 color screen)
Meter dimension	170 x 115 x 65mm (L x W x H)
Data interface	Type C, save the testing data and upload it to PC
Bluetooth	YES
Data hold	Auto/Manual data hold
Data storage	500 sets
Measurement judgment function	PASS, WARNING, FAIL judgment thresholds can be preset
Low battery indication	YES, 5 battery level
Auto power off	YES, Around 15 minutes
Weight (meter)	674.0g (batteries included)
Accuracy Guaranteed Temperature Humidity	23°C±5°C, <75%rh
Working temperature	-10°C~40°C; below 80%RH
Storage temperature	-20°C~60°C; below 70%RH
Puncture test	AC 3700V/RMS (between circuit and case)
External magnetic field	<40A/m
Suitable for safety regulations	IEC 61010; CE certificated

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