



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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TECHNOLOGY**



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