

DCIR-01S BATTERY TESTER



INTRODUCTION

The DCIR-01S Battery Tester delivers precise, efficient, and convenient measurement of battery internal resistance and voltage. Featuring an integrated automatic testing mechanism, the tester provides instant battery evaluation based on user-defined thresholds, ensuring early problem identification and prevention of battery aging and potential anomalies to improve the reliability and longevity of batteries.

Compatible with lead-acid, nickel-cadmium, nickel-zinc, lithium-ion, and other battery types, this portable tester is ideally designed for efficient battery maintenance and testing.

FEATURES & BENEFITS



HIGH ACCURACY

Sampling error $\leq 1\%$: Support 24-bit ADC sampling, with reliable and precise measurement values

High anti-interference: Adopt DC small current discharging detection method, which has strong anti-interference capability without damaging the batteries



EXTENDED OPERATIONAL TIME

Low energy consumption: Support 60-hour continuous operation, with power-off consumption 0.01uA

Energy-saving function: Automatically activate energy-saving mode after 5 minutes of no operation



EASE-OF-USE

User-friendly operation: Support automatic processing of testing-calibration-judgment, easy data upload to PC

Sequence measurement: With built-in Autohold, Autoswitch and other functions, the device enables efficient batch testing without repeatedly pressing "TEST" button



SAFE & RELIABLE

Enhanced safety protection: Isolate from strong and weak electricity and automatic alarm of over temperature, over-current, short circuit, overvoltage, and reverse connection

Reliable system initialization: Support complete self test after power-on to ensure the reliable operation of tester




FUNCTIONS

Items	Description
Collection	Collect 1~16V battery voltage and 50~65535uΩ internal resistance
Diagnosis	Allow users to calculate and compare the deviation of test values from IR benchmark values and estimate the battery status (PASS/WARNING/FAULT)
Logging	Automatically capture measured values in real-time, and with a large memory capacity of 8GB, all data can be saved, reviewed and downloaded on PC for further analysis.


SPECIFICATIONS

Items	Description
Environment	Indoor/Pollution level 2 600V CAT III (lower to CAT II after installing the detector cap) Altitude: 0~2000m Temperature: 0~40°C Humidity: 80%RH (non-condensing)
Power supply	Alkaline 5 battery*8 cells
Battery	Approx. 60 hours (without backlight, battery model: Nanfu Polyring 4)
Dimension	Approx. 210W*146H*56D mm
Weight	Approx. 900g
Screen	240*128 DOTS OLED module
Storage	1-channel SD card port
Communication port	LAN/USB-C
Electrical isolation	1000VAC
Reference	Regulatory: IEC 61010 EMC: IEC 61326
Protection level	IP40
Response	3~20s

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