

# 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



### EASE-OF-USE

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

**Sequence measurement:** With built-in auto keep, auto record, auto measure and other functions, the device enables efficient batch testing without repeatedly pressing "TEST" button



### EXTENDED OPERATIONAL TIME

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

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



### SAFE & RELIABLE

**Enhanced safety protection:** Isolate from strong and weak electricity and automatic alarm of overtemperature, overcurrent, 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 AA battery (LR6) * 8
Battery	Approx. 60 hours (without backlight)
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	Safety: IEC 61010 EMC: IEC 61326
Protection level	IP40
Response	3~20s

### North America

### India

### Other Area