

## Efficient Electrical Safety Comprehensive Tester AN9640H(F)/AN9651H(F)/AN9651H-C(F)



### Product Overview

Ainuo Instrument Co., Ltd has been dedicated to the research and development of electrical safety analyzers for over 30 years, and has participated in drafting 16 national standards and industry calibration regulations for safety analyzers. The AN9640H(F) series Efficient Electrical Safety Comprehensive Tester features complete functions, high reliability, and high cost-effectiveness, meeting the comprehensive safety performance testing needs for various production lines such as household appliances.

### Features

- **Seven-in-one:** ACW/DCW/IR/GB/LC/PW/ST
- **High precision:** 1% accuracy for safety tester, 0.2% accuracy for power
- **High speed:** GB and ACW/DCW/IR in parallel, fast switching, fast test
- **Automation:** RS232/LAN/USB/BARCODE/PLC/ALARM/REMOTE interface
- **Informatization:** Optional industrial PC and ESRS software for data storage and MES integration

### Applications

- Safety of household and similar electrical appliances (GB4706.1/IEC60335-1)
- Audio and video, information technology, and communication technology equipment (GB4943.1/IEC62368-1)
- Safety requirements for electrical equipment for measurement, control, and laboratory use (GB4793.1/IEC61010-1)
- Luminaires (GB/T7000.1/IEC60598-1)
- Electric vehicle conductive charging system (GB/T18487.1)

### Specifications

Model	AN9640H(F)	AN9651H(F)	AN9651H-C(F)
AC withstand voltage (ACW)	5kVac/100mA (500VA output capacity, 200mA short-circuit current) (optional dynamic ACW)		
DC withstand voltage (DCW)	6kVdc/20mA		
Insulation resistance (IR)	3kVdc/50GΩ		
Ground resistance (GB)	40Aac/600mΩ		
Leakage current (LC)	20mA leakage current, MD-A network (IEC60990 Fig. 4, up to 8 networks), RMS measurement;		
Power test (PW)	300V/20A/6kW (optional 10kW)		
Starting test (ST)	300V/25A		
DUT power supply	External isolated power supply is required (optional built-in 500VA power supply)	Standard 6kVA variable frequency power supply cabinet	
Parallel test	Parallel GB, IR/ACW/DCW test		
Display operation	LCD display, numeric keypad		PC/ESRS measurement and control system
Control interface	RS232/LAN (optional)/USB (store)/BARCODE/PLC/ALARM/REMOTE interface		
Standard accessories	Test box (3m), test clamp (3m), foot switch (2.5m), alarm lamp (0.8m), auxiliary power cable (1.9m)		
Optional accessories	Tester calibrator, barcode scanner, label printer		
Dimensions (W×H×D mm)	426×177×550	483×1350×600	

Over 30 years of industry experience, meeting the test needs of more segmented industries and complete all tests with just one-click and one wiring.

Multiple start modes: button on front panel/remote control/barcode scanner/grounding clamp;



Air conditioner/refrigerator/washing machine  
AC/DC withstand voltage/insulation/grounding  
LC/PW/ST  
Continuous test and impact test



Electric fan/rice cooker/energy-saving lamp  
AC/DC withstand voltage/insulation/grounding  
Multi level power automatic judgment  
0.10W low-power measurement



### Parallel GB, IR/ACW/DCW test.

- AN9640H(F) Series Efficient Electrical Safety Comprehensive Tester.
- With parallel GB, IR/ACW/DCW test.
- Significantly reducing the testing time, double the production capacity of the production line.

Routine test 4s	GB 2s		IR 1s	ACW 1s
Parallel test 2s	GB 2s			
	IR 1s	ACW 1s		

### Build information test platform with industrial PC and ESRS measurement and control software.

- This AN9651H-C(F) Series Efficient Electrical Safety Comprehensive Tester is designed with automation and information test functions:
- (1) Barcode scanning/barcode recognition/calling programs/starting test;
- (2) Local store/filter/export;
- (3) Optional MES connection, active data upload, query upload, and breakpoint continuation; downloading test programs from the server; multiple database connection, including SQL Server, Oracle, MySQL and other database intermediate table connection, Modbus TCP connection, Web API connection, as well as local TXT text and Access database connection.

