CE





Single/Three-Phase Electrical Safety Analyzer

Main Application:

Used for home appliance & charging pile production lines test.
Hipot testing, ACW test, DCW test, IR test, GB test, LC test

Product Model:

AN1640H(F)/AN1651H(F)AN1651TH(F)

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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 AN1640H(F) Series Intelligent Safety Analyzer features complete functions, high precision, high speed, automation, informatization, and intelligence, meeting the comprehensive testing needs of fast cycle, multi-variety, and informatization safety performance of single-phase and three-phase household appliances, charging piles, and similar production lines.

Product features

- Eight-in-one: ACW/DCW/R/GB/LC/PWIST/Loop
- High precision: 1% accuracy for the safety tests, 0.2% accuracy for the power
- High speed: GB and ACW/DCW/R in parallel, LC and PW in parallel
- Automation: RS232/LAN/USB/BARCODE/PLC/ALARM/REMOTE/HDMI interface

Product application

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

Technical specifications

Model	AN1640H(F)	AN1651H(F)	AN1651TH(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 (optional 64A)		
Leakage current (LC)	20mA leakage current, MD-A/F network (IEC60990 Fig. 4, Fig. 5, up to 8 networks); RMS and peak measurement;		20mA leakage current, MD-A network (IEC60990 Fig. 4, up to 8 networks); RMS and peak measurement;
Power test (PW)	Single-phase 300V/20A/6kW (Optional multiple power levels, low power, and 10kW)		Single-phase 300V/30A/6kW Three-phase 300V/30A/20kW (Optional 60kW, 90kW)
Startup test (ST)	300V/25A		300V/30A
Loop test (LN)	(Optional: Dual mode of low voltage DC and low voltage AC, 1~999Ω)		
DUT power supply	External isolated power supplyis required(Optional built-in 500VA power supply)	Standard 6kVA variable frequency power supply cabinet	Built-in 20kVA isolation transformer, optionalexternal variable frequency power supply;(Optional 60KW or 90kW, standard external isolation transformer chassis)
Parallel test	GB and ACW/DCW/IR in parallel, LC and PW in parallel		GB and ACW/DCW/IR in parallel
HMI	Android platform, 10" touchscreen, RS232/LAN/USB/BARCODE/PLC/ALARM/REMOTE/HDMI (optional) interface		
Standard accessories	Test box (3m), test clamp (3m), foot switch (2.5m), alarm lamp (0.8m), auxiliary power cable (1.9m)		
Optional accessories	Spot check device, barcode scanner, label printer, industrial PC, ESRS software; external HDMI monitor, wireless keyboard/mouse		
Dimensions (W×H×D mm)	426×177×550	520×1365×630	520×1365×630

Complete testing of all items with just one click and one wiring

Multiple MDs: up to 8 MD options, covering various industry test standard requirements;

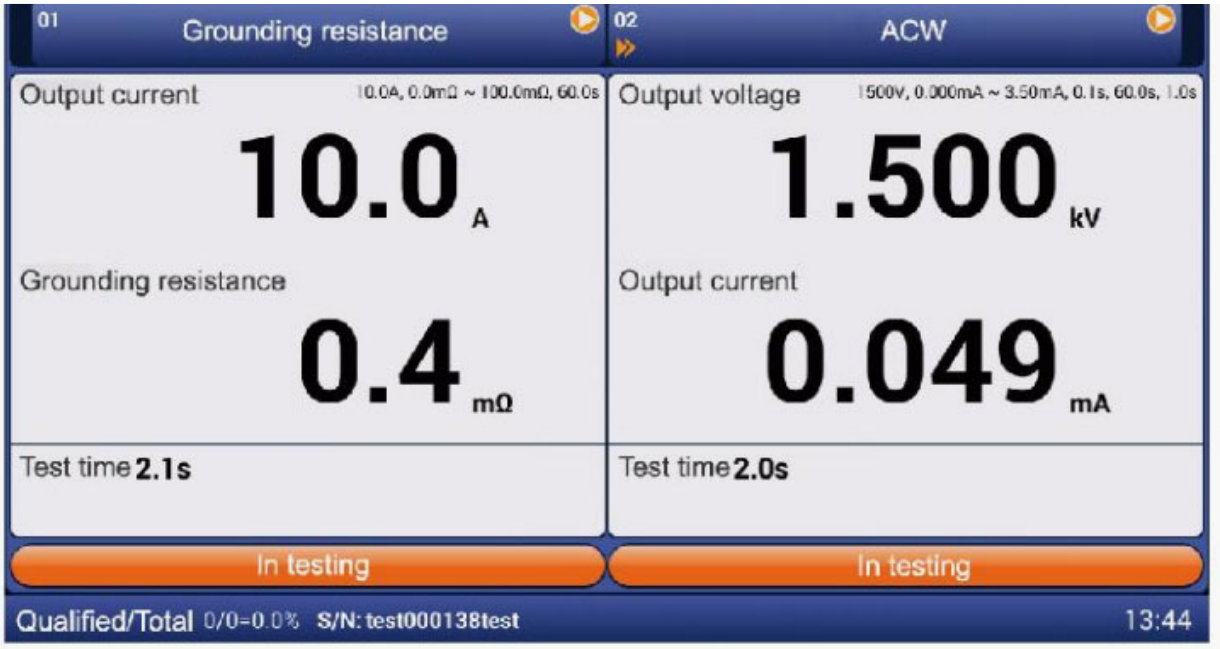
Multiple start modes: button on front panel/remote control/barcode scanner/grounding clamp.



GB and IR/ACW/DCW/ in parallel, LC and PW in parallel

AN1640H(F) series Intelligent Safety Analyzer, with parallel GB, IR, ACW/DCW test, as well as parallel test of dynamic LC and PW parameters, significantly reducing the testing time, doubling the production capacity of the production line.

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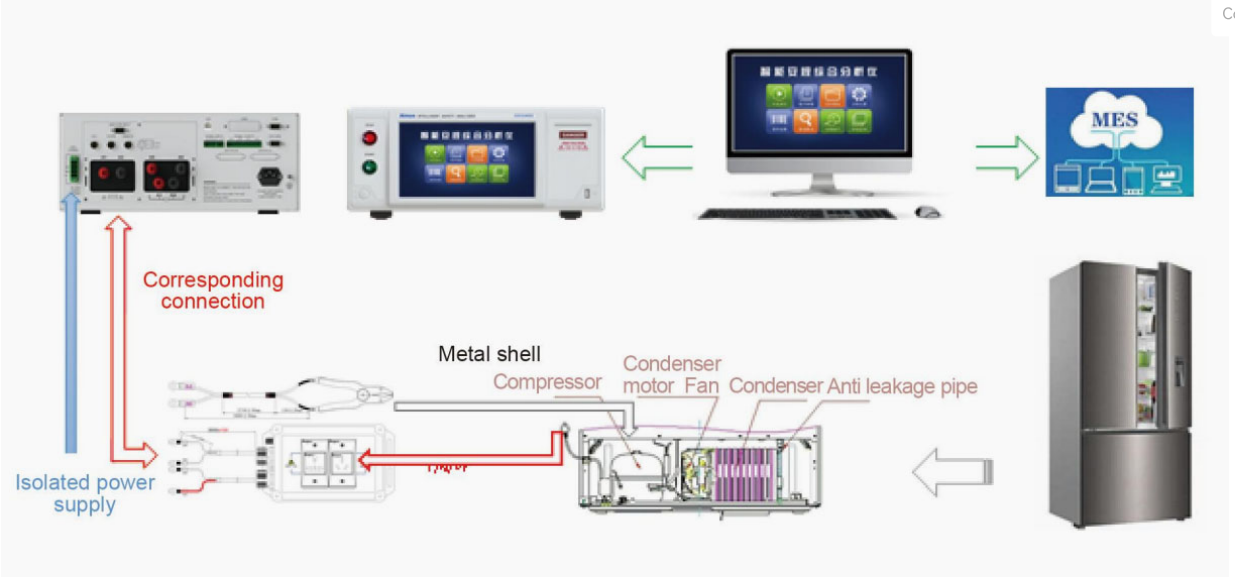


Routine Test 4s	GB 2s		IR 1s	ACW 1s
Parallel Test 4s	GB 2s		/	/
	IR 1s	ACW 1s	/	/

Routine Test 8s	LC 4s	PW 4s
Parallel Test 4s	LC 4s	/
	PW 4s	/

The AN1640H(F) Series Intelligent Safety Analyzer can build an information test platform, and no PC is required.

1. Support barcode scanning/barcode recognition/calling programs/startup test;
2. Local store, data filter, report generation, data export, and other functions;
3. Real-time data upload/download through LAN interface and Manufacturing Information System (MES);
4. Support HDMI LCD and wireless keyboard/mouse, clear display, and convenient.



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