Safety Analyzer

AC Power Supply

DC Power Supply

Motor Test Scheme

Power Analyzer

Electronic Load

Intelligent Safety Analyzer
AN1640H(F)/AN1651H(F)/AN1651TH(F) Series

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 AN1640H(F) Series Intelligent Safety Analyzer features complete functions, high precision, high speed, automation, informatization, and intelligent, 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 electrical product production lines.

Features

▌ **Eight-in-one**
▾ ACW/DCW/IR/GB/LC/PW/ST/Loop

▌ **High precision**
▾ 1% accuracy for safety tester, 0.2% accuracy for power

▌ **High speed**
▾ GB and ACW/DCW/IR in parallel, LC and PW in parallel

▌ **Automation**
▾ RS232/LAN/USB/BARCODE/PLC/ALARM/REMOTE/HDMI interface

▌ **Intelligent**
▾ Android platform, 10'' touchscreen, scene recognition, intelligent matching, automatic test

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	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

▍ Over 30 years of industry experience, meeting the test needs of more segmented industries and complete test 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;

Air conditioner/refrigerator/wash-ing machine
AC/DC withstand voltage/insula-tion/grounding
LC/PW/ST
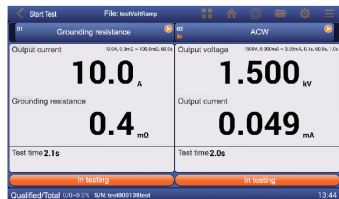Continuous test and impact test

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

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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, 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		

Routine test 8s	LC 4s	PW 4s
Parallel test 4s	LC 4s	
	PW 4s	

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

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

Corresponding connection

Metal shell
Compressor
Condenser motor Fan   Condenser Anti leakage pipe

Isolated power supply