

## AN1635H(F)/AN1636H(F)/AN1637H(F)/AN1638H(F) Multi-channel Intelligent Electrical Safety Comprehensive Analyzer

- ※ Four-in-one: ACW/DCW/IR/GB
- ※ High precision: 1% accuracy for safety comprehensive analyzer
- ※ High speed: GB and ACW/DCW/IR in parallel
- ※ Informatization: Android platform, data storage, barcode recognition, MES connection



### Product Introduction

This Ainuo AN16 series multi-channel intelligent electrical safety comprehensive analyzer has the characteristics of intelligence, high speed and high precision, with functions for AC/DC voltage withstand voltage, insulation resistance, AC/DC ground bond resistance test, arc detection, open/short circuit detection, electric shock protection, multi-channel switching and others.

This series of products has wide ranges: 5kV/100mA (or 40mA) AC withstand voltage, 6kV/20mA DC withstand voltage, 6kV/50GΩ insulation resistance, 64A (or 32A)/600mΩAC ground bond resistance test.

This series of product has an intelligent platform, informatization functions and automatic interfaces, meeting requirements of high-quality development, intelligent manufacturing and industrial upgrading.

This series of products can meet the safety testing requirements of various electrical products with multi-input and multi-output, such as switching power supplies, power adapters, frequency converters, inverters, UPS, motors, electric drives, batteries, and charging piles.

### Features

#### ★ Safe and reliable

- ※ Draft units who participated in drafting of national standards and verification regulations for safety compliance analyzers;
- ※ 30 years of experience on safety testing expertise and understanding of customer needs;
- ※ Complete electromagnetic environment, load conditions, endurance test verification;
- ※ Electric shock protection, arc detection, open/short circuit detection and other functions.

#### ★ Convenient and efficient

- ※ Fast measurement and control: fast test, switching and discharge;
- ※ Parallel test: AC grounding and insulation withstand voltage in parallel, doubled speed;
- ※ Flexible configuration: multi functions, channels and models.

### ★ Intelligent and automatic

- ※ Smart safety compliance analyzer: Android system, 7" touch screen, self-learning smart keyboard;
- ※ Barcode recognition: barcode scanning, program matching, automatic startup, data packing;
- ※ Data management: local storage, network transmission, direct connection with MES system;
- ※ Interfaces: RS232, USB, LAN, WIFI, PLC, I/O control.

## Specifications

Model	AN1638H(F) ACW/DCW/IR/GB	AN1637H(F) ACW/DCW/IR/GB	AN1636H(F) ACW/DCW/IR	AN1635H(F) ACW/DCW/IR	AN1632H(F) ACW/IR	AN1632D(F) DCW/IR
AC withstand voltage (ACW)	5kVac/100mA	5kVac/40mA	5kVac/100mA	5kVac/40mA	5kVac/40mA	No
DC withstand voltage (DCW)	6kVdc/20mA				No	6kVdc/20mA
Insulation resistance (IR)	6kVdc/50GΩ					
Ground bond resistance (GB)	64Aac/600mΩ	32Aac/600mΩ	No			
Parallel	Grounding and insulation withstand voltage in parallel		No			
Multi-cha nnel	Optional 8-channel high-voltage or ground card		Optional 8-channel high-voltage card			
Interface	Android system, 7" touch screen, RS232/LAN/WIFI/PLC/USB interface					
Dimension (mm)	426 (W) *132 (H) *520 (D)					

## Specifications (subject to the final confirmation of the technical specification)

Model	AN1638H(F)	AN1637H(F)	AN1636H(F)	AN1635H(F)	AN9632H(F)	AN9632D(F)
Function	ACW/DCW/IR/GB	ACW/DCW/IR/GB	ACW/DCW/IR	ACW/DCW/IR	ACW/IR	DCW/IR

AC withstand voltage test	Rated output capacity	AN1638H(F) /36H(F)	500VA (5kV/100mA), short circuit current>200mA
		AN1637H(F) /35H(F)	200VA (5kV/40mA), short circuit current>200mA
	Output voltage	Range/Accuracy	Range:(100~5000)V,resolution:1V,allowable error:±(1%×setting value+5V);
	Output frequency	Range/Accuracy	50Hz/60Hz,allowable error:±0.1Hz
	Alarm current	Upper limit/Accuracy	Range:(0.00~100.0(or 40.0))mA,resolution:0.01mA,allowable error:±(1%×reading value+5 counts)
		Lower limit/Accuracy	Range:(0.000~9.999)mA,resolution:0.001mA,allowable error:±(1%×reading value+5 counts)
	Time	Range	Range:0,(0.5~999.9)s,0 is infinite, resolution:0.1s,allowable error:±(0.1%×setting value+2 counts)
		Ramp-up time	Range:0,(0.1~999.9)s,0 is off, resolution:0.1s,allowable error:±(0.1%×setting value+2 counts)
		Ramp-down time	Range:0,(0.1~999.9)s,0 is off, resolution:0.1s,allowable error:±(0.1%×setting value+2 counts)
	Arc detection		Level 1~9(9: highest level), 0: off
DC withstand voltage test	Rated output capacity		120VA (6kV/20mA);
	Output voltage	Range/Accuracy	Range:(100~6000)Vdc,resolution:1V,allowable error:±(1%×setting value+5V)
	Alarm current	Upper limit/Accuracy	Range:(0.0~20000)μA,resolution:0.1μA/1μA, allowable error:±(1%×reading value+5 counts)
		Lower limit/Accuracy	Range:(0.0~999.9)μA,resolution:0.1μA, allowable error:±(1%×reading value+5 counts)
	Time	Range	Range:0,(0.5~999.9)s,0 is infinite,resolution:0.1s,allowable error:±(0.1%×setting value+2 counts)
		Ramp-up time	Range:0,(0.4~999.9)s,0 is off,resolution:0.1s,allowable error:±(0.1%×setting value+2 counts)
		Ramp-down time	Range:0,(1~999.9)s,0 is off,resolution:0.1s,allowable error:±(0.1%×setting value+2 counts)
	Arc detection		1~9(9: highest level), 0 is off
Insulation resistance test	Rated output		6000Vdc/50GΩ
	Output voltage	Range/Accuracy	Range:(100~6000)Vdc,resolution:1V,allowable error:±(1%×setting value+5V)
	Alarm resistance	Upper/lower	Range:0.10MΩ~50000MΩ, the upper limit includes no upper limit setting

		limit	
		allowable error	100~499V:0.10MΩ~999.99MΩ, 1000~2000MΩ,±(5%×reading value+2 counts) 500~6000V:0.10~999.99MΩ,±(2%×reading value+2 counts), 1000~9999MΩ,±(5%×reading value+2 counts) 10000~50000MΩ,±(15%×reading value+2 counts)
	Time	Delay decision time	Range:0,(0.5~999.9)s,0 is infinite,resolution:0.1s,allowable error:±(0.1%×setting value+2 counts)
		Ramp-up time	Range:0,(0.1~999.9)s,0 is off,resolution:0.1s,allowable error:±(0.1%×setting value+2 counts)
		Ramp-down time	Range:0,(1.0~999.9)s,0 is off,resolution:0.1s,allowable error:±(0.1%×setting value+2 counts)
AC ground bond resistance test (only for AN1638H(F) and AN1637(F))	Rated output	AN1638H(F)	Max test current 64Aac, max resistance 600mΩ, open-circuit voltage<12Vac
		AN1637H(F)	Max test current 32Aac, max resistance 600mΩ, open-circuit voltage<12Vac
	Output current	Range/Accuracy	Range:(2.0A-32.0A (or 64A) )AC, resolution:0.1A,allowable error:±(1%×setting value+2 counts)
	Output voltage	Range/Accuracy	Open-circuit voltage range:(3.0~10.0)V AC,resolution:0.1V,allowable error:±(1%×setting value+2 counts)
	Output frequency	Range/Accuracy	50Hz/60Hz,allowable error:±0.1Hz
	Alarm limit setting	Range of resistance upper/lower limit	3 A≤output current≤10A: 0.1 ~ 600 mΩ 11A≤output current≤32A (or 64A) : 0.1-R, R = 6400/setting current (mΩ) resolution:0.1/1mΩ
		Accuracy	<100mΩ,±(1%×reading value+1mΩ); ≥100mΩ,±(1%×reading value+2 counts)
	Test time setting	Range/Accuracy	Range:0,(0.5-999.9)s,0 is infinite,resolution:0.1s,allowable error:±(0.1%×setting value+2 counts)
Other configuration	Display	Android system, 7" color touch screen	
	Parallel	Parallel ground bond resistance and withstand voltage test (only for AN1638H(F) and AN1637H(F))	
	Communication interface	RS232 (optional RS485), USB, LAN, WIFI	
	Control interface	Alarm light, I/O, interlock interface	
Dimension (W×H×D, mm)			426*132*520