

## Comprehensive multi-channel electrical safety performance analyzer AN9637HC/AN9638HC, AN9635HC/AN9636HC, AN9613HC/AN9616HC



### Description of product

The new-generation Ainoo comprehensive safety analyzer is mainly used for electrical safety testing of quality inspection institutions, laboratories and 3C and peripheral equipment. It has flexible channel configuration options and special design for power supply equipment, meeting requirements for multi-station quick test.

### Product features

- Four-in-one: AC withstand voltage, DC withstand voltage, insulation resistance, grounding resistance; open circuit/short circuit test, arc detection.
- Multi-channel: Optional 5-channel withstand voltage 3-channel grounding board card, 6-channel withstand voltage 2-channel grounding board card, 8-channel withstand voltage board card, 8-channel grounding board card and other multi-channel cards.
- Dual withstand voltage serial: Innovative design, dual-channel withstand voltage output setting, setting of voltage division ratio between input end, output end and safe ground of power unit, multi-point withstand voltage test at one time.
- Fast: 0.5s accurate test, 0.1s fast switching; safety test accuracy of 1%, 9-level arc detection.
- Automated management: intelligent program control such as barcode recognition, automatic matching of test programs, automatic start of testing, test data storage (U-disk), meeting modern management requirements of production line.

## Types

Model	Basic functions
AN9637HC	200VA; AC withstand voltage, DC withstand voltage, insulation resistance, ground bond
AN9638HC	500VA; AC withstand voltage, DC withstand voltage, insulation resistance, ground bond
AN9635HC	200VA; AC withstand voltage, DC withstand voltage, insulation resistance
AN9636HC	500VA; AC withstand voltage, DC withstand voltage, insulation resistance
AN9613HC	32A ground bond
AN9616HC	64A ground bond
963-8W	8-channel withstand voltage output (optional)
963-8G	8-channel ground bond output (optional)
963-3W5G	3-channel withstand voltage, 5-channel ground bond output (optional)

## Specification (Version: V3.00.00)

Function		Technical index
ACW	Rated output capacity	200VA (5000V/40mA), short circuit current is greater than 200mA; optional 500VA model.
	Output voltage setting	Range/allowable error Range: 100~5000V, resolution: 1V, allowable error: $\pm(1\% \times \text{setting} + 5V)$
	Output frequency setting	Range/allowable error 50Hz/60Hz, allowable error: $\pm 0.1\text{Hz}$
	Alarm current setting	Upper limit/Allowable error Range: 0.00~100.00mA, resolution: 0.01mA, allowable error: $\pm(1\% \times \text{reading} + 5 \text{ words})$

		Lower limit/Allowable error	Range: (0.000~9.999)mA, resolution: 0.001mA, allowable error: $\pm(1\% \times \text{reading} + 5 \text{ words})$
	Time setting	Range of test time	Range: 0, (0.5~999.9)s, resolution: 0.1s, allowable error: $\pm(1\% \times \text{setting} + 1 \text{ word})$
		Range of slow ramp-up time	Range: 0, (0.1~999.9)s, resolution: 0.1s, allowable error: $\pm(1\% \times \text{setting} + 1 \text{ word})$
		Range of slow ramp-down time	Range: 0, (0.1~999.9)s, resolution: 0.1s, allowable error: $\pm(1\% \times \text{setting} + 1 \text{ word})$
	Initial voltage setting		$(0\% - 50\%) \times \text{setting of output voltage}$
	Current compensation setting		0.000~10.00mA, total current + compensation current <100.00mA, automatic/manual
	Arc detection		1~9 (9 corresponds to most sensitive), 0 means that arc function is Off
DCW	Nominal output capacity		120VA( 6000VDC/20mA )
	Output voltage setting	Range/allowable error	Range: (100~6000) VDC, resolution: 1V, allowable error: $\pm(1\% \times \text{setting} + 5V)$
	Alarm current setting	Upper limit/Allowable error	Range: 0.0~20000 $\mu$ A, resolution: 0.1 $\mu$ A/1 $\mu$ A, allowable error: $\pm(1\% \times \text{reading} + 5 \text{ words})$
		Lower limit/Allowable error	Range: (0.0~999.9) $\mu$ A, resolution: 0.1 $\mu$ A, allowable error: $\pm(1\% \times \text{reading} + 5 \text{ words})$
	Time setting	Range of test time	Range: 0, (0.5~999.9)s, 0 is infinite, resolution: 0.1s, allowable error: $\pm 1\% \times \text{setting} + 1 \text{ word}$

		Range of slow ramp-up time	Range: 0, 0.4~999.9s, 0 is infinite, resolution: 0.1s, allowable error: $\pm 1\% \times \text{setting} + 1 \text{ word}$
		Range of slow ramp-down time	Range: 0, (1.0~999.9)s, 0 is infinite, resolution: 0.1s, allowable error: $\pm 1\% \times \text{setting} + 1 \text{ word}$
	Initial voltage setting		$(0\% \sim 50\%) \times \text{setting of output voltage}$
	Lower limit current for charging		$(0 \sim 350.0) \mu\text{A}$ , automatic/manual
	Arc detection		1-9 (9 is the most sensitive), 0 means arc function off
IR	Nominal output		2500VDC/50G $\Omega$
	Output voltage setting	Range/allowable error	Range: (100~2500) VDC, resolution: 1V, allowable error: $\pm(1\% \times \text{setting} + 5\text{V})$
	Alarm resistance setting	Range of upper/lower limit	Range: 0.10M $\Omega$ ~50000M $\Omega$ , the upper limit includes the setting for no upper limit
		Allowable error	100~499V: 0.10M $\Omega$ ~999.99M $\Omega$ , $\pm(2\% \times \text{reading value} + 2)$ 1000~2000M $\Omega$ , $\pm(5\% \times \text{reading value} + 2)$ 500~2500V: 0.10~999.99M $\Omega$ , $\pm(2\% \times \text{reading} + 2 \text{ words})$ 1000~9999M $\Omega$ , $\pm(5\% \times \text{reading value} + 2)$ 10000~50000M $\Omega$ , $\pm(15\% \times \text{reading value} + 2)$
	Time setting	Range of delay time	Range: 0, (0.5~999.9)s, 0 is infinite, resolution: 0.1s, allowable error: $\pm 1\% \times \text{setting} + 1 \text{ word}$
		Range of slow increasing time	Range: 0, (0.1~999.9)s, 0 is infinite, resolution: 0.1s, allowable error: $\pm 1\% \times \text{setting} + 1 \text{ word}$
		Range of slow	Range: 0, (1.0~999.9)s, 0 is infinite, resolution: 0.1s, allowable

		decreasing time	error: $\pm 1\% \times \text{setting} + 1 \text{ word}$
	Lower limit current for charging		(0~3.500) $\mu$ A, automatic/manual
GB	Rated output		Test current up to 32A, open circuit voltage is lower than 12V; (optional 64A output model)
	Output current setting	Range/allowable error	Range: (2.0A-32.0A) AC, resolution: 0.1A, allowable error: $\pm(1\% \times \text{setting} + 2 \text{ words})$
	Output voltage setting	Range/allowable error	Range: 3.0~10.0 VAC, resolution: 0.1V, allowable error: $\pm(1\% \times \text{setting} + 2 \text{ words})$ , open circuit
	Output frequency setting	Range/allowable error	50Hz/60Hz, allowable error: $\pm 0.1\text{Hz}$
	Alarm limit setting	Range of resistance upper/lower limit	3 A $\leq$ output current $\leq$ 10A: 10~600 m $\Omega$ 11A $\leq$ output current $\leq$ 25A: 10~300 m $\Omega$ 26A $\leq$ output current $\leq$ 32A: 10~200 m $\Omega$
		Allowable error	$< 100\text{m}\Omega$ , $\pm(1\% \times \text{reading} + 1\text{m}\Omega)$ ; $\geq 100\text{m}\Omega$ , $\pm(1\% \times \text{reading} + 2 \text{ words})$
	Compensation resistance	Range	0~100m $\Omega$ , automatic measurement, compensation o/off
	Test time setting	Range/allowable error	Range: 0, (0.5-999.9)s, 0 is infinite, resolution: 0.1s, allowable error: $\pm 0.2\% \times \text{setting} + 1 \text{ word}$