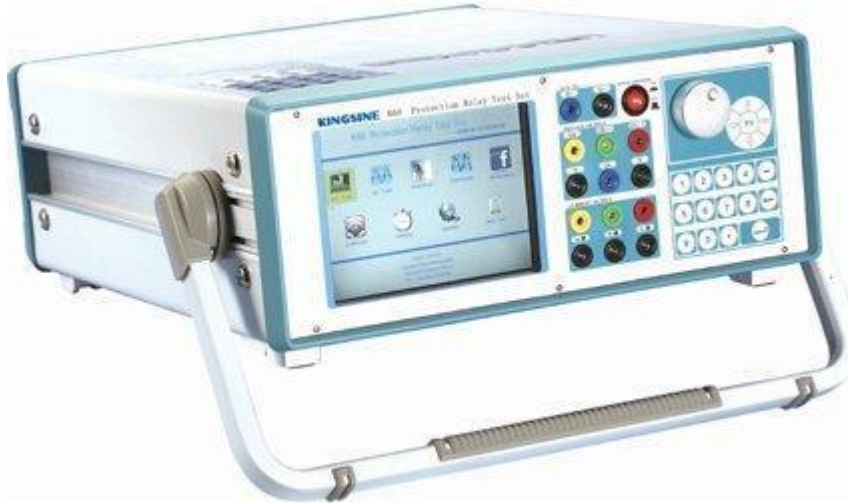


KINGSINE K68 Protection Relay Test Set



Software Features:

1. Able to test most of Relays by manual or automation: Voltage relays, Current relays, Frequency relays, Power relays, Impedance relays, Harmonic relays, Distance relays etc;
2. With self housing-grounding-detecting function, the software interface can show whether the housing well grounding or not, effectively ensure the safety of testing.

Hardware Features:

1. All-in-one design relay tester with 6.4 inches LCD display;
2. 4 Phase AC Voltage source and 3 phase AC current source can be output together, even the Range, Phase, Frequency can be set independently;
3. Max AC voltage can reach 300V each phase, Offer independent Aux. DC to tested devices, 0 ~ 300V/0.6A (Poleless and adjustable);
4. Offer different type of computer port: USB port, RJ45 port, VGA Video Port , USB / RJ45 ports convenient for data transfer, VGA Video Port can connect to projector and easy for study and training;
5. Super long life Rotary encoder + Functional keyboard.

Technical Data of K68

Voltage generators		
Setting Range	4-phase AC (L-N)	4 x 0 ... 130V
	2-phase AC (L-L)	2x 0 ...260 V
Power	4-phase AC (L-N)	4 x70VA, at 0 ...130 V
	2-phase AC (L-L)	2 x 140VA, at 0 ...260 V
Accuracy		<0.07% reading + 0.03% range guaranteed at 0-130V <0.04% reading + 0.01% range typical at 0-130V
Resolution		1mV
Current generators		
Setting Range	3-phase AC (L-N)	3 x 0 ... 35 A
	1-phase AC (3L-N)	1 x 0 ...105 A
Power	3-phase AC (L-N)	1x 450VA, at 0 ... 35A
	1-phase AC (3L-N)	1 x 1000VA, at 0 ...105A
Accuracy		<0.14% reading + 0.06% range guaranteed at 0-35A <0.05% reading + 0.02% range typical at 0-35A
Resolution		1mA
Generators, general		
Frequency	Range	0 ... 1000 Hz
	Accuracy / drift	Error < 0.001Hz at 10 ... 65Hz, Error < 0.01Hz at 65Hz...450Hz Error < 0.02Hz at 450Hz...1000Hz
	Resolution	0.001Hz
Phase	Range	- 360° ... +360°
	Accuracy / drift	Error < 0.2 °
	Resolution	0.1°
Time	Range	0 ... 999,999.999s
	Accuracy / drift	Error<1ms
DC generators		
Voltage ranges		0 ... 300V/180VA
Current ranges		0 ... 20A/300W
Accuracy		Error <0.1% reading + 0.1% range guaranteed at 0...300 V; Error <0.1% reading + 0.1% range guaranteed at

	0...20 A;
Resolution	1mA; 1 mV
Aux DC Supply	
Range	0...300V/0.6A
Binary inputs	
Number	8 pairs
Compatible Voltage	10V ... 250V DC
Binary outputs	
Number	4 Pairs
Capacity	250V/3A (AC/DC)
Synchronization	
Synchronization mode	GPS
Harmonic	
Harmonic overlap times	2 ... 9 times
Power supply	
Nominal input voltage	220V±20% VAC, 1-phase
Power	1000VA
Nominal frequency	50±10% Hz
Environmental conditions	
Operation temperature	-5°C ... 55 °C
Storage temperature	-20°C ... 75 °C
Humidity range	5% ... 90 %, non-condensing
Weight	20KG
Dimensions	460(D)×140 (W)×360 (H) mm
Interface	RJ45 , USB, VGA

Main Series Relay Tester List:

K68 series	K68	3x35A, 4x130V, 5 function modules, Ethernet, TFT LCD, WinCE
	K68i	3x35A, 4x300V, 5 function modules, Ethernet, TFT LCD, WinCE

Major functions:

Items	IEEE(R) No.
Overcurrent relays	50/76
Inverse time overcurrent relays	51

Undercurrent relays	37
Ground fault relays	50
Directional overcurrent relays	67
Directional ground fault relays	67N
Overvoltage relays	59
Undervoltage relays	27
Directional voltage relays	91
Directional power relays	32
Power factor relays	55
Distance protection equipment (phase by phase)	21
Automatic reclosing devices	79
Tripping relays	94
Voltage regulating relays	
Overimpedance relays, $Z>$	
Underimpedance relays, Z	
Time-delay relays	