



GDJB-1600 Relay Protection Tester



Product Description

Relay Protection Microcomputer Test Device plays a key role in operating electricity power systems reliably and safely. It is the testing device used in professional field of microcomputer protection, relay protection, excitation measurement, fault recorder.

Features

Voltage and current output flexible combination

Output up to 6-phase voltage 6-phase current, can be combined arbitrarily to realize conventional 4 phase voltage 3 phase current mode, 6 phase voltage mode, 6 phase current mode, and 12 phase output mode. It can not only be compatible with traditional

test methods, but also can be used for three-phase transformer differential test and fast cutting and auto switching test of power plant.

Operation mode

The single-chip capacitive touch LED display screen, device internal WIN7-64 bit operating system runs independently and can also be connected to an external laptop or desktop machine for operation, convenient and fast, stable performance.

New high-fidelity linear power amplifier

The output terminal always insists on high-fidelity, high-reliability modular linear power amplifiers, rather than switch type power amplifiers, with excellent performance. It will not generate high and intermediate-frequency interference on the test site, moreover, it ensures that the waveform is smooth and accurate from the large current to the small current.

High-performance host

The output part adopts DSP control, which has fast operation speed, strong real-time digital signal processing capability, wide transmission bandwidth and high resolution D/A conversion. The accuracy of the output waveform is high, and the distortion is small and linear. A large number of advanced technology and precision component materials are adopted, and the specialized structure design is carried out. Therefore, the device is small in volume, light in weight, full of function and convenient to carry.

Powerful software

It can complete a variety of large and complex calibration work with high degree of automation. It can easily test and scan various protection fixed values, carry out fault playback, store test data in real time, display vector graphs, print reports on line and so on. 6 phase current can be used to test three-phase differential protection conveniently.

Has an independent dedicated DC power output with a 110V and 220V dedicated adjustable DC power output.

With USB communication port, which can communicate with computer and other external devices.

Perfect self-protection function

The heat dissipation structure is designed rationally, and the hardware protection measures are reliable and complete. It has the function of soft start of the power supply, software self diagnosis and output lockout.

Specifications

Rated output	Frequency error: $<\pm 0.01\text{Hz}$ Phase error: $<\pm 0.2^\circ$ Waveform distortion: $<\pm 0.3\%$ (fundamental wave) Time error: $<40\mu\text{s}$ Output frequency: 20~1000Hz
Power voltage	Allowable range: AC220V $\pm 10\%$, 50Hz $\pm 10\%$
Ambient temperature	Use range: 0~40°C Storage range: -20~70°C

AC source	Current	<p>6 Phase current output (RMS): 0~30A/phase</p> <p>3 Phase current output (RMS): 0~60A/phase</p> <p>6 parallel current output (RMS): 0~180A</p> <p>Long-term allowable working value of phase current (RMS): 10A</p> <p>Allowable working time of 6 parallel current 180A: 10s</p> <p>Accuracy: <±0.2%</p> <p>Max. Output power of phase current: 300VA</p> <p>Max. Output power of 6 parallel phase current: 1000VA</p> <p>Harmonic frequency: 1~20 times</p>
	Voltage	<p>Phase voltage output (RMS): 0~120V</p> <p>Line voltage output (RMS): 0~240V</p> <p>Accuracy: <±0.2%</p> <p>Phase/Line voltage output power: 80VA/100VA</p> <p>Harmonic frequency: 1~20 times</p>
DC source	Current	<p>Output range: 0~±10A/phase</p> <p>Accuracy: <±0.5%</p> <p>Max. Output load voltage: 20V</p>

	Voltage	<p>Phase voltage output amplitude: 0~±160V</p> <p>Line voltage output amplitude: 0~±320V</p> <p>Accuracy: <±0.5%</p> <p>Phase/Line voltage output power: 70VA/140VA</p>
Time measurement		<p>Test range: 0.1ms~9999s</p> <p>Accuracy: <0.1mS</p>
8 Binary input		<p>Idle contact: 1~20mA, 24V (DC)</p> <p>Electric potential contact: "0": 0 ~ +6V; "1": +11 V ~ +250 V</p>
4 Binary output		DC: 220 V／0.2 A: AC: 220 V／0.5 A
Dimension		410mm ×360mm ×200mm
Weight		23kg