# Microcomputer Relay Protection Tester

## RDJB-802M & RDJB-1600M

RDJB-802M

RDJB-1600M

**Microcomputer Relay Protection Tester** is our company extensively listening to user opinions, summarizing the advantages and disadvantages of similar domestic products at present, and fully using modern advanced A new type of miniaturized microcomputer relay protection tester based on microelectronic technology and devices. Small size and high accuracy. It not only has the superior performance and advanced functions of large-scale testers, but also has the advantages of compactness, flexibility, easy operation, high reliability, etc. of small testers, and high performance-price ratio. It is a good tool for relay protection workers.

## 🕮 Product Features

1. Flexible combination of voltage and current output

   Six phase voltage and six phase current can be output, which has made it is possiable to be any combition, such as the output mode of the combination of conventional four phase current and three-phase current, six phase voltage mode, six phase current mode and 12 phase output mode. It not only can be compatible with the traditional way of various tests, but also can conveniently carry out differential test of three-phase transformer.

2. Operation mode

   The device can run independently and can also be operated by an external laptop or desktop computer, which is convenient and efficient and stable performance.

3. A new hi-fi linear power amplifier

   The output port has always insisted on using the modular linear power amplifier instead of the switching power amplifier, which has the high fidelity and high reliability function and excellent performance. High-mid frequency will not be produced to disturb the test, also ensure the smoothing accuracy of waveform produced by the whole course of the high current to the tiny current is excellent.

4. High performance Mainframe

   The output part adopts DSP control, which has fast operation, real-time digital signal processing capability, wide bandwidth and high-resolution D/A conversion control. The output waveform has the features of high precision, small distortion and good linearity. With using a large number of advanced technology and precision components and materials and the structure of professional design, the device has the features of small volume, light weight, full function, easy to carry, boot can work, flow test is very convenient.

5. Powerful software function

   It can complete all kinds of high automatic validation work which is large and complex. It can also conveniently test and scan protection setting, playback of fault, real-time store test data, display vector, online print report and so on. Besides, six-phase current can facilitate the test of three-phase differential protection.

6. Independent DC power output

   An 110V and 220V adjustable DC power is designed to supply output.

7. Complete interface

   The device with USB communication port can communicate with the computer and other external devices.

8. Perfect self-protection function

   With reasonable design of the heat dissipation structure and the reliable and perfect hardware protection measures, it has the power soft start function and the software of the fault self-diagnosis and the output latch function.

# Product Specifications and Technical Parameters

| | | |
|---|---|---|
| **Picture** |  |  |
| **Model** | **RDJB-802M** | **RDJB-1600M** |
| AC current source | Phase current output (effective value): 0~30A | The virtual value of each phase output when six phase current output: 0 ~ 30A |
| | Output Precision: 0.2 degree | Output precision: 0.2 grade |
| | 3 phase parallel current output (effective value): 0~**90A** | The virtual value of each phase output when three phase current output: 0 ~ **60A** |
| | | The virtual value of six phase parallel current output: 0 ~ **180A** |
| | A Long-time Phase current: 10A | The allowed virtual value when the phase current work long time: 10A |
| | Maximum output power of Phase current: 300VA | |
| | Maximum output power of 3 parallel current: 800VA | The maximum output power when six phase parallel current output: **1000VA** |
| | Maximum Permitted work time of 3 parallel current: 5s | The allowed working time when six phase parallel current maximum output: **10s** |
| | Frequency range (fundamental): 0~1000Hz | |
| | Harmonic time: 2~20 | |
| | Phase: 0~360º | |

| | | |
|---|---|---|
| DC current source | Current output: 0 ~ ±10A / phase;<br>output precision: 0.5 grade | |
| | | The maximum load volatage output: 20V |
| AC voltage source | The virtual value of phase voltage output: 0 ~ 120V<br>Output precision: 0.2 grade | |
| | The virtual value of line voltage output: 0 ~ 240V | |
| | The output power of phase voltage/ line voltage: 75VA / 100VA | The output power of phase voltage/ line voltage: **80VA** / 100VA |
| | Frequency range (fundamental wave): 0 ~ 1000Hz | |
| | Harmonic order: 2 ~ 20 | |
| | Phase: 0~360º | |
| DC voltage source | The output amplitude of phase voltage: 0 ~ ±160V; output precision: 0.5 grade | |
| | The output amplitude of line voltage: 0 ~ ±320V | |
| | The output power of phase voltage/ line voltage: 90VA / 180VA | The output power of phase voltage/ line voltage: **70VA / 140VA** |
| Switching terminal | 8 channels input | |
| | Free contact: 1～20mA, 24V | |
| | Electric potential contacts: “0”：0 ~ +6V; “1”：+11V ~ +250V | |
| | 4 channels output: DC: 220V/0.2A; AC: 220V/0.5A | |
| Time measurement range | 1ms ~ 9999s, measurement accuracy: 1ms | |
| Power | AC220V ± 10%; 50Hz | |

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