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# DDG-1000A

PRIMARY CURRENT INJECTION TESTER

*warn*

[ please read this manual carefully and keep it for future  
reference or maintenance ]

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## Dear Client,

Thank you for purchasing our PRIMARY CURRENT INJECTION TESTER voltage divider. Please read the manual in detail prior to first use, which will help you use the equipment skillfully.



Our aim is to improve and perfect the company's products continually, so there may be slight differences between your purchase equipment and its instruction manual. You can find the changes in the appendix. Sorry for the inconvenience. If you have further questions, welcome to contact with our service department.



The input/output terminals and the test column may bring voltage, when you plug/draw the test wire or power outlet, they will cause electric spark.

PLEASE CAUTION RISK OF ELECTRICAL SHOCK!

## ◆ SERIOUS COMMITMENT

All products of our company carry one year limited warranty from the date of shipment. If any such product proves defective during this warranty period we will maintain it for free. Meanwhile we implement lifetime service. Except otherwise agreed by contract.



## SAFETY REQUIREMENTS

Please read the following safety precautions carefully to avoid body injury and prevent the product or other relevant subassembly to damage. In order to avoid possible danger, this product can only be used within the prescribed scope.

*Only qualified technician can carry out maintenance or repair work.*

--To avoid fire and personal injury:

### **Use Proper Power Cord**

Only use the power wire supplied by the product or meet the specification of this produce.

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### **Connect and Disconnect Correctly**

When the test wire is connected to the live terminal, please do not connect or disconnect the test wire.

### **Grounding**

The product is grounded through the power wire; besides, the ground pole of the shell must be grounded. To prevent electric shock, the grounding conductor must be connected to the ground.

Make sure the product has been grounded correctly before connecting with the input/output port.

### **Pay Attention to the Ratings of All Terminals**

To prevent the fire hazard or electric shock, please be care of all ratings and labels/marks of this product. Before connecting, please read the instruction manual to acquire information about the ratings.

### **Do Not Operate without Covers**

Do not operate this product when covers or panels removed.

### **Use Proper Fuse**

Only use the fuse with type and rating specified for the product.

### **Avoid Touching Bare Circuit and Charged Metal**

Do not touch the bare connection points and parts of energized equipment.

### **Do Not Operate with Suspicious Failures**

If you encounter operating failure, do not continue. Please contact with our maintenance staff.

### **Do Not Operate in Wet/Damp Conditions.**

### **Do Not Operate in Explosive Atmospheres.**

### **Ensure Product Surfaces Clean and Dry.**

## **—Security Terms**

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Warning: indicates that death or severe personal injury may result if proper precautions are not taken

Caution: indicates that property damage may result if proper precautions are not taken.

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## I. Introduction

DDG-1000A PRIMARY CURRENT INJECTION TESTER is a large current test equipment for electrical testing, which is used in power plants, transformer stations, electrical manufacturers, scientific research, laboratories, etc. It belongs to short-time or intermittent work, and has the advantages of small size, light weight, good performance and easy to use.

## II. Structure



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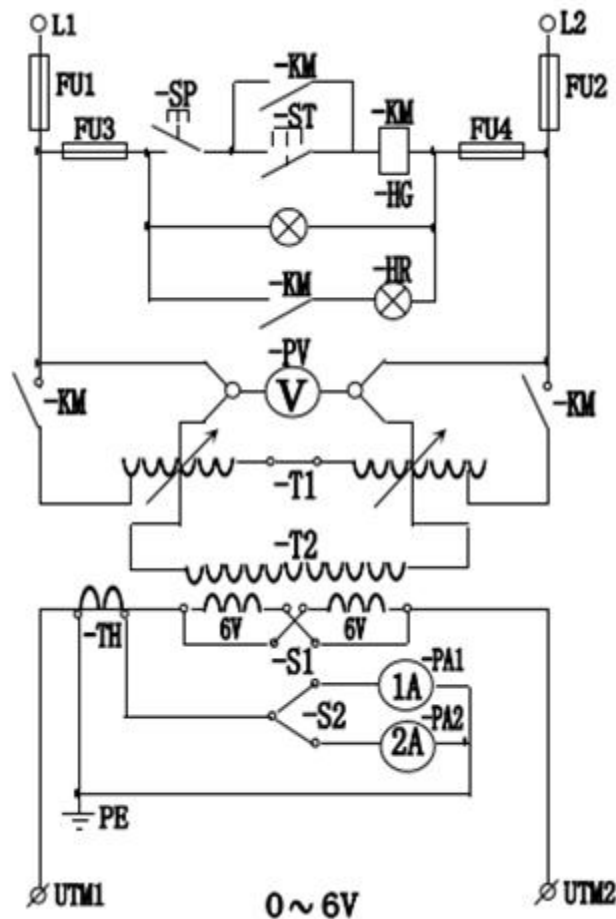
### III.Operation method

Connect the working line correctly during the high current test. Select the position of the range switch when output current. First, return the regulator to zero, and then press the [start button (green)], at this time, turn the regulator handle (clockwise), view the ammeter display data, reach the target current value, after the test is over, the regulator returns to zero, stop button, turn off the power.

### IV. Technical parameter

1. Phase: single phase
2. Output current: AC 0~1000A
3. Opening voltage: 6V
4. Equipment capacity: 3kVA
5. Input voltage: AC 220V/75A/50Hz
6. Working time: 1000A Full load  $\leq$ 30 minutes
7. Conductor: 600mm<sup>2</sup>, length 2.5m, 2 pieces
8. Accuracy: 1.0%
9. Weight: 30 kg

## V. Schematic diagram



**Schematic diagram**

Note: When the secondary output is above 6V, order according to user requirements.

The product is a dry design, equipped with auto regulator output voltage (and generator input voltage), to obtain the target high current.

1, AC 220V power supply, T1 wiring should be wired according to the original regulations.

2, no voltmeter and S1 switching circuit below 1000A.

3, output copper wire according to 6A/mm<sup>2</sup>, the length is less than 3 meters.

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4, the product manufacturer has not formulated the output wire, the user to provide.

## **VI. Matters needing attention**

1. After receiving the product, check whether the terminal is loose and whether the regulator brush is in good contact.
2. When not in use for a long time, use a 500V megohm meter to check the insulation resistance to the ground should not be less than 0.5 megohm.
3. The input voltage shall meet the mark on the nameplate ( $\sim 220V$  or  $\sim 380V$ ),  $\pm 10\%$ , 50Hz.
4. Current switch, do not allow load operation.
5. Slowly rotate the handle during test operation.
6. When working fully, the working time shall not exceed 5 minutes, and the continuous working time shall be less than 2.5 minutes, but the working period shall be greater than 10 minutes.
7. The product must be reliably grounded.



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## VII. Packing list

No.	Name	Qty.	Packaged or not
1	DDG-1000A	1	Y
2	Power cord (AC 220V/50Hz)	1	Y
3	Ground wire	1	Y
4	Instruction manual	1	Y
5	Certificate	1	Y
6	Inspection report	1	Y