

# NARL-H全自动变压器容量及空载负载测试仪

产品名称	NARL-H全自动变压器容量及空载负载测试仪
公司名称	南澳电气（武汉）有限公司
价格	1.00/台
规格参数	品牌:南澳电气 型号:NARL-H 生产厂家:南澳电气(武汉)有限公司
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## 产品详情

NARL-H Automatic Transformer Capacity and Load Load Tester

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### 产品简介

我国电力系统实行两部制电价：除了收取计量装置所计量的费用外，还要根据变压器容量收取基本电费；对于较大用户在投运变压器时还要一次性交纳增容费。随着电力行业的发展，用电量的增大，自有变压器和私人承包变压器已渐渐占据了配变中相当的份额，随之而来的就是个人为了达到少交费、多用电的目的而采取的各种弄虚作假的手段（主要是改、换变压器铭牌）；有些用户年偷电费额达数十万之多，电力部门苦于没有有效的控制手段。 NARL-H变压器容量及空载负载测试仪是南澳电气武汉公司针对这种问题专门开发、研制的专门用于变压器容量、损耗参数测量的高精度仪器。它自带效能充电电池，不用外接电源即可工作，充电一次可连续测量几十至上百台次；同时，内部数字合成三相标准正弦波信号（绝非简单的逆变交流输出，保证了非额定条件下各测试项目测试数据的准确性），经功率放大器可提供三相精密交流测试源；在测量变压器容量和变压器的短路损耗时不需要外接三相测试电源及调压器、升流等辅助设备，简化了接线，大大提高了工作效率；容量测试结果准确率高。它一种设备相当于二种设备：有源变压器容量测试仪+变压器损耗参数测试仪。它可对各种变压器的容量、空载电流、空载损耗、短路损耗、阻抗电压等一系列工频参数可进行精密的测量。该NARL-H变压器容量及空载负载测试仪具有体积小、重量轻、测量准确度高、稳定性好、操作简便易学等优点,完全可取代以往利用多表法测量变压器损耗和容量的方法，接线简单，测试、记录方便，大大提高了工作效率。它以中英文大屏幕图形式液晶作为显示窗口，图形式菜单操作并配有中英文提示，集多参量于一屏的显示界面，人机对话界面友好，使用简便、快捷，是各级电力用户的产品。

### 产品别名

## 变压器容量特性测试仪，变压器特性测试仪

### 产品特性

- 1、可精确测量各种配电变压器的容量，无源测量，方便、准确。
- 2、内部自带电源、自动产生三相大功率测试电源。
- 3、内置高性能锂离子充电电池，容量大，充满电可连续测试500台以上。
- 4、可测量各种类型的变压器的空载电流、空载损耗、短路电压、短路损耗。
- 5、可自动进行波形畸变校正，温度校正，电压校正（非额定电压下的空载试验），电流校正（非额定电流条件下的短路试验），操作人员只需根据变压器类型输入校正指数仪器即可自动计算出校正后的结果，非常适合没有做稍大容量变压器短路试验条件的单位。
- 6、电压回路宽量限：电压可测量到750V，不用切换档位即可保证精度。不会因电压档位选错而对仪器本身有所损坏。
- 7、容量测量范围：20KVA~100000KVA。
- 8、电池剩余电量百分数指示功能，绝非简单的亏电报警。
- 9、大屏幕、高亮度的液晶显示，全汉字菜单及操作提示实现友好的人机对话，导电硅胶触摸按键使操作更简便，按键寿命更长。
- 10、用户可随时将测试的数据通过微型打印机将结果打印出来。
- 11、测试结果存储功能，可存储200组容量测试数据。

### 产品参数

#### 1、输入特性

有源部分：

电压测量范围：0~10V

电流测量范围：0~10A

无源部分：

电压测量范围：0~750V 宽量限。

电流测量范围：0~100A内部全部自动切换量程。

#### 2、准确度

电压：±0.3%

电流、功率：±0.5%（ $\cos > 0.1$ ），±1.0%（ $0.02 < \cos < 0.1$ ）

3、工作温度：- 10 ~ +40

4、充电电源：交流160V~260V

5、绝缘： 、电压、电流输入端对机壳的绝缘电阻 100M。

、工作电源输入端对外壳之间承受工频2KV（有效值），历时1分钟实验。

6、体积：32cm × 24cm × 13cm

7、重量：3Kg

## Product introduction

Electric power system implement two-part tariff: Beside charge by measured charge meter, but also charge the basic tariff according to transformer capacity. For big users, who put into transformer operation, it needs to pay a one-time capacity fee. While with the development of power industry, electricity consumption is increasing, the owned transformer and private contractors have gradually occupied a considerable share, and as follows, in order to pay less, use more, it takes lots of fraudulent means (mainly to change, alter transformer nameplate). Some users steal electricity charge reach to hundreds of thousands, the power sector have suffered no effective means to control yet.

NARL-H Transformer Capacity and Load Load Tester is developed by NANAO ELECTRIC company Electrical specifically for resolving the problem, it ' s a high precision instruments developed specifically for transformer capacity and loss parameter measurements. It comes with a high-performance rechargeable battery, can work without external power supply, the charging time can be measured hundreds times continuously; Meanwhile, the internal digital combined as three-phase standard sine wave signal (not simple inverter AC output, which ensure the accuracy of each tested project data under the non-rated conditions ), the power amplifier can provide precise phase AC testing source; and measure transformer capacity and transformers three-phase short-circuit loss tests without external power source, voltage regulator, voltage booster and other auxiliary equipment, simplifying wiring, improved work efficiency greatly; the accuracy of capacity testing results very high. It can be used as two kinds of devices: Active transformer capacity tester + transformer loss parameter tester. It can measure the transformer capacity, load current, load loss, short-circuit loss, impedance voltage and a series of parameters for precision frequency measurements. The NARL-H Transformer Capacity and Load Load Tester has a small size, light weight, high measuring accuracy, good stability, easy to operate etc., which completely replace the conventional method of using multi-table transformer losses and capacity measurement method, simple to connect the wires, test and record, and have greatly improved work efficiency. It has a big screen as a graphic LCD window, graphical menu operation and with a character prompt, set the parameters in a multi-screen display interface, interactive user-friendly, easy to use, is the preferred product for electric users at all levels .

Also called name

Transformer capacity tester, Test instrument transformers

The Characteristics of the products

(1) Can accurately measure the capacity of various distribution transformers, passive measurement , convenient and accurate .

(2) With internal self-powered, which can produce three-phase power of testing power .

(3) Built-in high-performance lithium-ion rechargeable battery, large capacity, full of electricity can be continuous testing more than 500 units.

(4) Can measure the no-load current, no-load loss, short-circuit voltage, short-circuit loss of various types of transformer.

(5) Can correct waveform distortion automatically, temperature correction, voltage

correction (no-load test under the condition of no rated voltage), current correction ( short circuit test under the condition of no rated current) , the operator only need to input calibrated index based on transformer type, it comes to the calculated index results automatically, very suitable for the large capacity transformer unit doing short circuit testing.

(6) Wide range of voltage circuit: the maximum measuring voltage can up to 750V, no need to switch gear to ensure accuracy, will not damage the instrument even you choose the wrong voltage gear.

(7) Capacity measuring range: 20KVA~100000KVA.

(8) With function of indicating the percentage of remaining power of battery, not just simple power loss alarm.

(9) With a large screen, high brightness LCD display, full English menu and operating tips to achieve a friendly man-machine dialogue, the touch buttons make operation easy to operate, conductive silicone touch buttons make the operation more convenient and the life of button is longer.

(10) The user can print the test data through mini- printer at any time.

(11) With test results storage function, can store 200 groups of testing data.