

# 南澳电气公司NA8801直流系统综合测试仪

产品名称	南澳电气公司NA8801直流系统综合测试仪
公司名称	南澳电气（武汉）有限公司
价格	100.00/台
规格参数	品牌:南澳电气 型号:NA8801 生产厂家:南澳电气(武汉)有限公司
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## 产品详情

NA8801 DC System Comprehensive Tester

NA8801直流系统综合测试仪

### 产品简介

NA8801直流系统综合测试仪是根据关于《直流电源运行和维护规程》的相关要求，集多年的研制成果和长期现场运行经验，综合国内外相关先进技术而研发的新产品，该装置可实现不同容量充电机以及蓄电池组容量的检测和试验，并能准确可靠的测试出变电站直流电源系统的稳压精度、稳流精度、纹波系数、效率值、交流输入1-25次谐波值、放电容量等参数。同时配备直流电源综合测试仪数据分析软件，对上传至计算机的测量数据进行各种分析。

### 产品别名

直流电源测试系统，直流电源综合测试系统，直流电源测试仪，直流系统综合测试仪，直流电源特性综合测试系统

### 产品特性

- 1、NA8801直流系统综合测试仪是一种直流电源测试分析专用设备，全自动依照国标完成交流电压调整、加载负载电阻、参数测试（纹波系数测试、稳流精度测试、稳压精度测试等）、自动记录测试值并停止测试等功能；
- 2、强大的扩展功能：兼容220V直流系统和110V直流系统的检测；
- 3、采用三相自动数控调压器：输出精度高、功率大，电压稳定度高；

- 4、使用ARM和DSP双CPU工作控制，以及16M字节的FLASH存储器；
- 5、仪表使用大屏液晶触摸屏，全汉化图形界面，操作更简单、方便；
- 6、测试过程中实时显示测试数据，所有图表清晰美观、直观方便；
- 7、可保存、回显测量数据或将其上传到PC，专用直流电源综合测试仪数据分析软件进行详细数据图表分析。随时测试，随时保存、编辑、打印；
- 8、数据传入计算机，进行入库管理，可进行长期的历史数据保存和分析；
- 9、模块化结构，设计合理，运行可靠，体积小，重量轻；
- 10、大容量存储器：存储三百组稳压精度测试、纹波系数测试、稳流精度测试、效率测试、限流特性测试的数据；
- 11、完备的通讯功能，具有RS485通讯接口与USB接口，利用U盘传递数据，可以U盘更新仪表软件；
- 12、具有自动测试保护功能：当在测试过程当中，检测到整组或者单体电池异常时，则自动终止测试，
- 13、防止对电池造成过放电，完全避免对设备造成冲击；也可根据需要人为终止正在进行的测试过程。

功能：

**综合测试：**综合测试显示测量直流电流、测量直流电压、测量交流电压和测量纹波电压，并计算出稳压精度、稳流精度、稳压纹波系数和稳流纹波系数。

**稳压精度测量：**交流输入电压在额定电压 $\pm 10\%$ 范围内变化，负荷电流在额定值变化时，直流输出电压在调整范围内的任一数值时其稳压精度。

**稳流精度测量：**交流输入电压在额定电压 $\pm 10\%$ 范围内变化、输出电流在额定值的任一数值，充电电压在规定的调整范围内变化时，其稳流精度。

**纹波精度测量：**充电装置输出的直流电压中，脉动量峰值与谷值之差的一半，与直流输出电压平均值之比，计算出稳压纹波系数和稳流纹波系数。

**效率测量：**充电装置的交流额定输入功率与直流输出功率之比，效率测量显示测量交流电压、测量交流电流、测量直流电压，测量直流电流，并计算出输入功率、输出功率和效率。

**谐波测量：**电流谐波测量，主要显示1~25次谐波的状况，包括谐波(或基波)次数、谐波真有效值、谐波含有率(hr)、总谐波畸变率(thd)等参数。

**电池放电：**数字化控制恒流放电，自动实时监测单节和整组电池的电压，电池放电测试显示测量直流电流、测量直流电压和放电时间，并计算出放电容量。

**实时监控功能：**实时显示并控制各设定的参数(如电压、电流、时间等)。

**在线监测放电：**可以实时通过无线通信监测，记录单节或整组电池的电压，并在PC机上实时曲线和柱状图显示。

**自动保护功能：**可通过设定电池组和单体电池保护电压、放电容量、放电时长四种门限报警而实现自

动保护。

强大的数据处理功能：可对蓄电池的多项测量结果进行曲线显示、生成报表，并进行综合计算分析，准确判别。

数据分析：包括的综合分析、稳压精度分析、稳流精度分析、纹波系数分析、效率分析、电网谐波分析和电池放电分析可重新显示原测量界面的内容。

数据上传：此功能允许用户将保存的测量数据上传到计算机以进行各种分析。

系统升级：此功能允许用户使用U盘更新仪表软件。

## Product introduction

NA8801 DC system comprehensive test instrument meet the state relevant requirement of the dc power supply operation and maintenance regulations, it was developed and researched according to many years of research results and experiences in field operation, and also was comprehensive domestic and foreign advanced technology. The device can realize the inspection and test in different capacity of the charger and battery capacity, and also can accurately test the voltage regulation accuracy, precision of steady flow, the ripple coefficient, the efficiency value, ac input value 1-25 harmonic and discharge capacity of substation dc power supply system, at the same time, it is equipped with dc power comprehensive tester data analysis software, can variously analysis the measurement data uploaded to the computer.

## The Characteristics of the products

1,NA8801 is a kind of dc power test analysis of special equipment, it is fully in automatic accordance with the national standard to complete ac voltage adjustment, load resistance, parameter test (ripple coefficient test, steady flow precision test, Precision of voltage regulation test, etc.), automatic record test values, stop testing, and other functions;

It is a DC power supply test and analysis equipment, automatic AC voltage adjustment is completed in accordance with the national standard, a load resistor, parametric tests (ripple factor test, steady flow accuracy testing, Precision of voltage regulation testing, etc.), and stops automatically record test value testing and other functions;

2,Strong extension function: compatible with 220 v and 110 v dc system detection;

3,Adopt Three-phase automatic numerical control voltage regulator: the output of high precision, large power, high voltage stability;

4,It use ARM and DSP double working control and 16 M bytes of FLASH memory.

5,Instrument use LCD touch screen, all English graphics interface, operating more simple and convenient;

6,Display test data in time during test process, chart is clear, intuitive and convenient;

7,can save, echo test data or upload the test data to PC, use special dc power supply comprehensive tester data analysis software to analyze detailed data chart, can test, save, edit and print at any time;

8,incoming data into computer, manage the warehouse, long-term historical data can be saved and analyzed;

9,modular structure, reasonable design, reliable operation, small volume, light weight;

10,Mass storage: can save three hundred group data of stable voltage accuracy test, ripple coefficient test, steady flow precision test, efficiency tes and Current limiting characteristics test;

11,Has perfect communication function, with RS485 communication interface and USB interface, can transfer data and update instrument software trough U disk;

12,It has automatic protection function: when the instrument detects the group or monomer battery abnormal during the testing process, it can automatically terminate the test;

13,Can prevent the battery excessive discharge, completely avoid the impact to equipment; Also can terminate the test according to your need.

## Main Functions

**Comprehensive test:** comprehensive test show that measuring dc current, dc voltage, ac voltage and ripple voltage, also can calculate the voltage regulation accuracy, steady flow accuracy, voltage ripple coefficient and steady flow ripple coefficient.

**Steady voltage precision test:** when AC input voltage changes within  $\pm 10\%$ , load current changes within DC output voltage is at any numerical in adjustment range, its steady voltage precision.

**Steady flow precision test:** when AC input voltage changes within  $\pm 10\%$ , output current is at any rate charging voltage changes within prescribed adjusting range, its steady flow precision.

**Ripple precision test:** we calculate the steady voltage ripple coefficient and steady current ripple coefficient by the ratio of half of the difference of the peak and valley value of ripple quantity and the average dc output voltage in the dc voltage of charging device output.

**Efficiency test:** the ratio of the rated ac input power and the dc output power of the charging device, efficiency test shows the measurement of AC voltage, AC current, DC voltage and DC current, at the same time, calculate input power, output power and efficiency.

**Harmonic test:** current harmonic test mainly shows 1 ~ 25 times the status of the harmonic, it contains harmonic (or fundamental wave) times, True RMS harmonic, Harmonic containing rate (hr), the rate of total harmonic distortion (thd) etc parameter.

**The battery discharge:** digital control constant-current discharge, automatic real-time monitoring the voltage of single section battery and the whole battery, the battery discharge test shows the measurement of DC current, DC voltage and discharge time, to calculate the discharge capacity.

**Real-time monitoring function:** real-time display and control variety of the set parameters, such as voltage, current, time and so on.

**Monitoring discharge online:** Can be real-time monitoring through wireless communication, record single section or whole group battery voltage, and real-time display curve and histogram in PC .

**Automatic protection function:** Through setting the minimum protection voltage of the battery pack and battery cell , discharge capacity, discharge time these four kinds of threshold alarm to realize automatic protection.

**Powerful data processing function:** can curve shows a number of measurement result, generate reports, and integrated computation analysis, accurate identification.

Data analysis: including comprehensive analysis, steady voltage accuracy analysis, steady flow accuracy analysis, ripple factor analysis, efficiency analysis, harmonic analysis and battery discharge analysis, the measurement can be re-display the contents of the original interface.

Data upload: This feature allows users to upload the saved measurement data to a computer to perform various analysis.

System upgrade: This feature allows users to use U disk to update the meter software.