

N9244 Series High Precision Multi Channel Programmable DC Power Supply



Product Introduction

N9244 series is a constant current programmable power supply with multi-channel, high integration, high performance, a standard 1/2 19 inch 2U chassis with 44 channels constant-current source output. It supports both desktop and system applications. N9244 series voltage specification is 40V, support constant current 5mA output, no leakage current under OFF state. NGI provides standard upper computer software to support large-scale testing and LAN/RS232 communication control. Users can carry out secondary development according to testing process and testing requirements, which is convenient for integrated system testing.

Application Fields

- ▶ Mini LED Luminescent Device
- ▶ LED Lamp Beads
- ▶ LED Light Bar
- ▶ LED Chips

Main Features

- ▶ Voltage Range:0~40 V
- ▶ Current Range:0~5 mA
- ▶ Current Resolution 1μA
- ▶ Constant Current Accuracy:0.1%+20μA
- ▶ All-round protection to ensure the safety of instruments and products under test
- ▶ 4.3-inch HD color screen, simple operation interface, easy to use
- ▶ Communication supports LAN, RS232, and standard MODBUS protocols
- ▶ No Leakage Current under OFF state
- ▶ High Integration, single unit with 44 channels
- ▶ Adopt modular architecture, easy maintenance

Constant current mode, Fast Test

With the continuous breakthrough of technology, LED pixel spacing is further reduced, Mini LED added a lot of new development space to the industry. The chip size of Mini LED is 10μm level, which means that the demand of traditional side entry light source display for lamp beads may be between 20~30 pcs, while the demand of Mini LED display for lamp beads will be increased to hundreds or even thousands, then the channels number of test instrument also needs more. N9244 series supports one key to enter constant current mode, current unified setting, realize 44 channels fast test, it can improve the test efficiency, greatly reduce the production cost.

HD Color Screen, Show all information

The N9244 series uses a large 4.3-inch HD color screen, which displays the information of read back voltage& current, current setting, and multilevel menu. The read back between different channels can be fast switched, and it can display voltage and current information for 22 channels at the same time, and support USB flash disk quick screenshot, real-time storage of test data.

CH1	CH2	CH3	CH4	CH5	CH6
2.57 V	2.57 V	2.56 V	2.57 V	2.56 V	2.54 V
1.666 mA	1.665 mA	1.668 mA	1.664 mA	1.665 mA	1.664 mA

CH7	CH8	CH9	CH10	CH11
2.54 V	2.55 V	2.55 V	2.53 V	2.55 V
1.663 mA	1.663 mA	1.664 mA	1.666 mA	1.666 mA

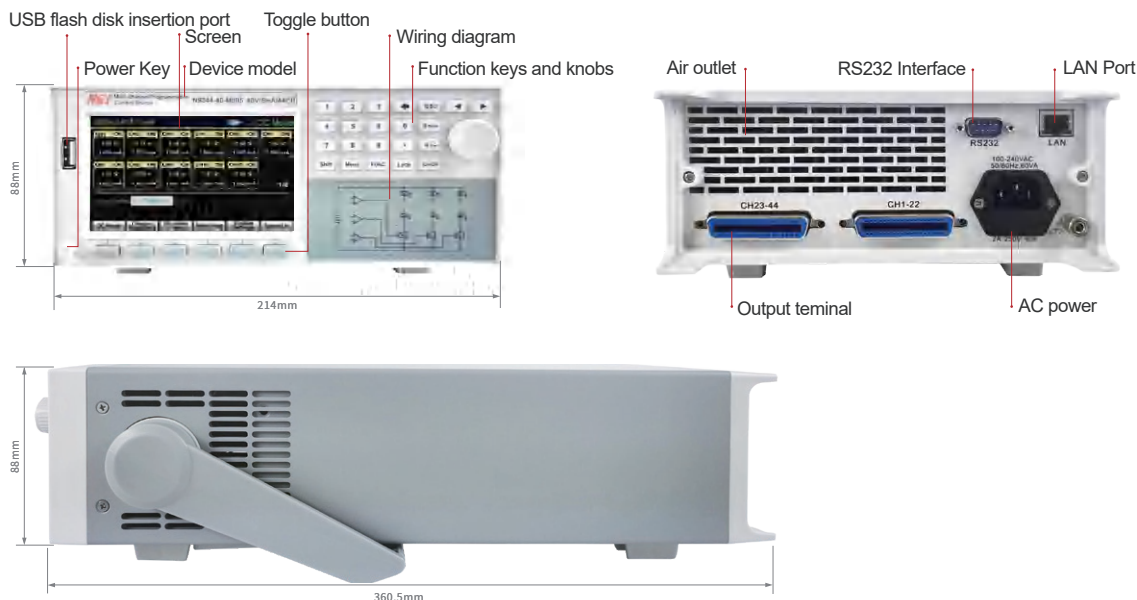
Channels	Voltage(V)	Current(mA)	Channels	Voltage(V)	Current(mA)
1	2.35	0.000	12	2.34	0.000
2	2.36	0.000	13	2.34	0.000
3	2.31	0.000	14	2.33	0.000
4	2.37	0.000	15	2.39	0.000
5	2.34	0.000	16	2.35	0.000
6	2.36	0.000	17	2.36	0.000
7	2.36	0.000	18	2.39	0.000
8	2.34	0.000	19	2.32	0.000
9	2.37	0.000	20	2.38	0.000
10	2.32	0.000	21	2.38	0.000
11	2.36	0.000	22	2.32	0.000

▲ Interface display diagram

Modular design, Easy Maintenance & Expansion

N9244 series adopts modular design, a single device has 2 output interfaces, each of which has 22 channels. The use efficiency of the instrument can be greatly improved by customized connectors, and it greatly reduce the tedious work of traditional test equipment wiring.

Product Dimension



Technical Data Sheet

Model	N9244-40-M005
Channels	44CH
Constant Current Model	
Range	0~5mA
Setting Resolution	1μA
Setting Precision (23±5°C)	0.1%+20μA
Current Measurement	
Range	0~5mA
Setting Resolution	1μA
Setting Precision (23±5°C)	0.1%+20μA
Voltage Measurement	
Range	0~40V
Readback Resolution	10mV
Readback Precision (23±5°C)	1%+0.1V
Others	
Communication Interface	LAN/RS232
AC Input	220V AC±10%, Frequency:47Hz~63Hz
Temperature	Operating Temperature:0°C~40°C; Relative Humidity:5%~90%RH(non-condensing); Atmosphere Pressure:80~110kPa
Dimension	88.0mm(H)*214.0mm(W)*360.5mm(D)
Net Weight	Approx.2.4kg

Note 1: For other specifications, please contact NGI. Note 2: All specifications are subject to change without notice