

R&S® NGE100B Power Supply Series

Reduced to the max



The perfect choice for

Education

R&D

Maintenance & repair

Manufacturing test

Key specifications	R&S®NGE102B	R&S®NGE103B
Number of channels	2	3
Max. output power	66 W	100 W
Output power per channel	max. 33.6 W	
Output voltage per channel	0 V to 32 V	
Output current per channel	0 A to 3 A	
Resolution	10 mV / 1 mA	

Fitting your daily needs

What sets these power supplies apart from others in their class?

- All channels are galvanically isolated and earth-free
- All channels are electrically equivalent with the same voltage, current and power
- Parallel and serial operation
- Protection functions to safeguard instrument and DUT
- Tracking and link functions
- Remote control via USB interface and optional LAN or wireless LAN, unique in this class

Your benefit	Features
Straightforward operation	All basic functions can be operated via direct keys on the front panel. The rotary knob can be used to adjust the desired voltage or current.
The separate output channels can work like individual power supplies	All channels are electrically equivalent, galvanically isolated, earth-free and can be combined in serial or in parallel to achieve higher voltages or currents.
Small, compact and quiet	Combination of primary transformer, secondary switching regulator and additional linear control reduces weight and size, yet maintains robustness and low ripple.

► For more information, visit www.rohde-schwarz.com/catalog/NGE100

Comfort features for special applications

EasyArb

EasyArb Mode on Ch 1 **Enabled**

EasyArb Repetition **1**

Number of Data Points **4**

N	Voltage	Current	Duration
1	5.00 V	0.900 A	1.00 s
2	10.00 V	0.700 A	5.00 s
3	3.00 V	1.000 A	0.03 s
4	10.00 V	0.800 A	60.00 s

Apply EasyArb Data **Apply**

Clear Data Points **Clear**

EasyArb allows the user to program time/voltage or time/current sequences.

EasyRamp

Ch 1 Ch 2 Ch 3

Output Ramping

Enabled **Enabled** **Disabled**

Ramping Time

10 ms 300 ms 10 ms

EasyRamp simulates operating conditions with controlled rise of supply voltage to prevent a sudden voltage surge.

EasyArb EasyRamp DI0:0000 LXI TMC

Ch 1 16.10 W

32.20 V 0.500 A

Ch 2 20.00 W

10.00 V **2.000 A**

Ch 3 3.50 W

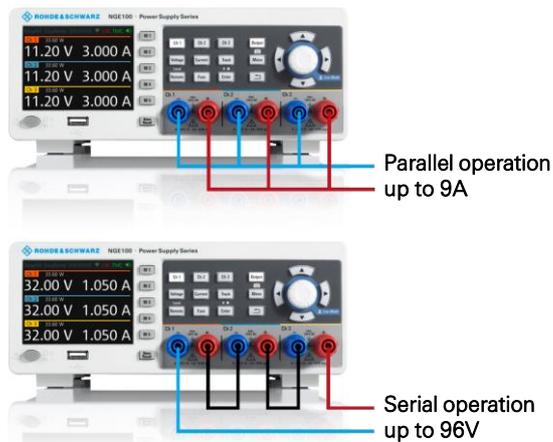
5.00 V **0.701 A**

The different operating conditions are marked by colors: constant voltage operation is indicated in green, constant current operation in red, inactive channels are shown in white, a number marked by a blue background indicates that the channel is in setting mode.

Ordering information

Base unit	
Two-channel power supply	R&S [®] NGE102B
Three-channel power supply	R&S [®] NGE103B
Software options	
Ethernet remote control	R&S [®] NGE-K101
Wireless LAN remote control	R&S [®] NGE-K102
Digital I/O trigger	R&S [®] NGE-K103
System components	
19" rack adapter, 2 height units	R&S [®] HZC95

Parallel and serial operation



Running in parallel, higher currents can be achieved; serial connected channels yield higher voltages.

Fuse

Ch 1 Ch 2 Ch 3

Fuse Delay

10 ms 20 ms 30 ms

Fuse Linking

Ch 2 **Disabled** **Ch 1 & 2**

Users can set the power supply so that all channels are switched off if one channel hits the limit. Or it can be set to leave one channel working.

Rohde & Schwarz Representative