

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

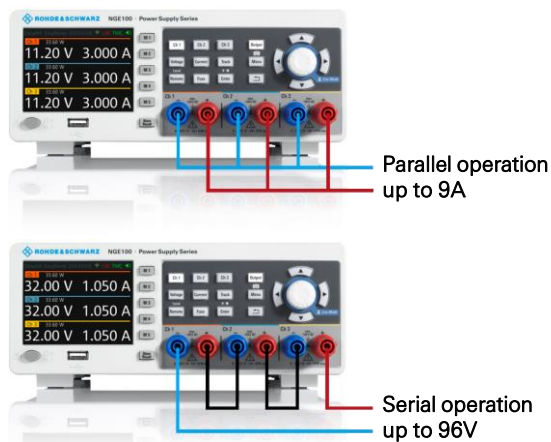
10.00 V **2.000 A**

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.

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.

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 |

Rohde & Schwarz Representative