



R&S® NGE100B POWER SUPPLY SERIES

Reduced to the max

The perfect choice for



| | |
|----------------------|--------------------|
| Education | R&D |
| Maintenance & repair | Manufacturing test |

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

| 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 | |

| 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 price and more information:
www.rohde-schwarz.com/catalog/NGE100B

Comfort features for special applications

EasyArb

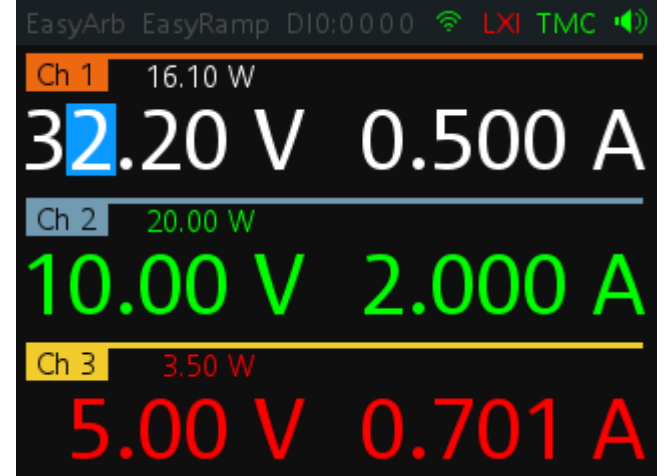
| EasyArb Mode on Ch 1 | Enabled | | |
|-----------------------|---------|---------|----------|
| EasyArb Repetition | 1 | | |
| Number of Data Points | 4 | | |
| N | Voltage | Current | Duration |
| 1 | 5.00 V | 0.900 A | 1.00 s |
| 2 | 10.00 V | 0.700 A | 5.00 s |
| 3 | 3.00 V | 1.000 A | 0.03 s |
| 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

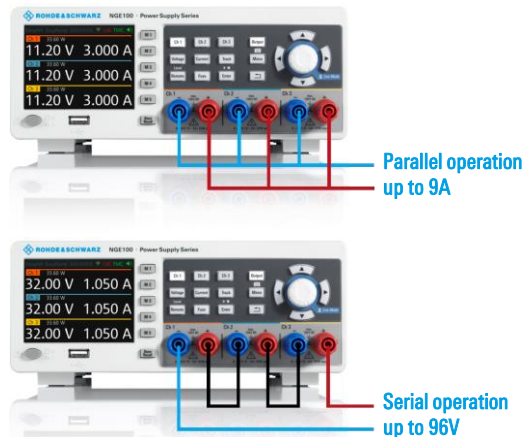
| | | |
|----------------|---------|----------|
| Ch 1 | Ch 2 | Ch 3 |
| Output Ramping | | |
| Enabled | Enabled | Disabled |
| Ramping Time | | |
| 10 ms | 300 ms | 10 ms |

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



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 |

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