



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.



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Comfort features for special applications

EasyArb

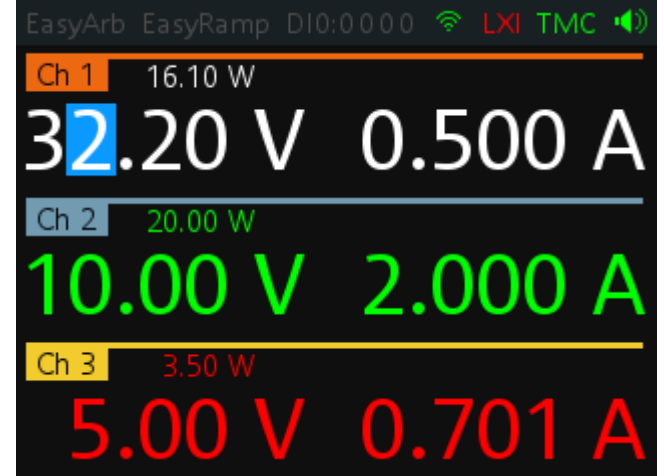
EasyArb Mode on Ch 1	Enabled		
EasyArb Repetition	1		
Number of Data Points	4		
N	Voltage	Current	Duration
1	5.00 V	0.900 A	1.00 s
2	10.00 V	0.700 A	5.00 s
3	3.00 V	1.000 A	0.03 s
4	10.00 V	0.800 A	60.00 s
Apply EasyArb Data	Apply		
Clear Data Points	Clear		

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

EasyRamp

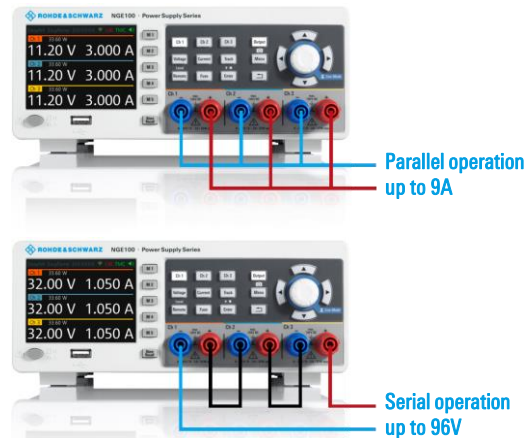
Ch 1	Ch 2	Ch 3
Output Ramping		
Enabled	Enabled	Disabled
Ramping Time		
10 ms	300 ms	10 ms

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