Product Datasheet - Technical Specifications

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ROHDE&SCHWARZ
Make ideas real

R&S®NGA100 POWER SUPPLY SERIES
Linear. Accurate. Affordable.

The R&S®NGA100 power supplies are linear, compact and easy to use. All models have excellent readback accuracy with a low-current range for demanding measurements.

Features such as data logging, arbitrary waveforms, built-in statistics and remote sensing make the instruments ideal for various bench applications. Equipped with a number of different remote interfaces, including USB and Ethernet, the R&S®NGA100 power supplies are also great for automated tests. Advanced protective functions keep devices connected and power supplies safe.

The perfect choice for

R&D	Manufacturing
IoT and low-power designs	General purpose and education

[1] R&S®NGA101, R&S®NGA102
[2] R&S®NGA141, R&S®NGA142

Key specifications	
Number of channels	1 or 2
Maximum output power	40 W or 80 W
Voltage per channel	0 V to 35 V or 100 V
Maximum current per channel	2 A or 6 A
Ripple and noise (20 Hz to 20 MHz)	< 0.5 mV (RMS), < 500 μA (RMS) [1] or < 1.5 mV (RMS), < 500 μA (RMS) [2]
Readback accuracy	< 0.02 % + 5 mV, < 0.03 % + 500 μA [1] or < 0.02 % + 10 mV, < 0.03 % + 500 μA [2]

| Your benefit	Features
Linear design	The linear design of the output stages allows the R&S®NGA100 power supplies to operate with minimal residual ripple and noise, supplying extremely stable output voltage and current.
FlexPower	The R&S®NGA100 power supplies operate with maximum power at various operating points and cover far more applications than single-range power supplies.
Channel fusion	Activate channel fusion in either serial or parallel mode and the device will act like a single-channel version of itself with double voltage or current capabilities.
Low-current measurement range	IoT devices can have multiple sleep modes where current consumption is very low. To accurately determine these operating states, R&S®NGA100 power supplies have a low-current measurement range.

FlexPower

R&S®NGA101/R&S®NGA102 FlexPower curve per output

Max. 36 W
Max. 40 W

Current in A (y-axis), Voltage in V (x-axis)
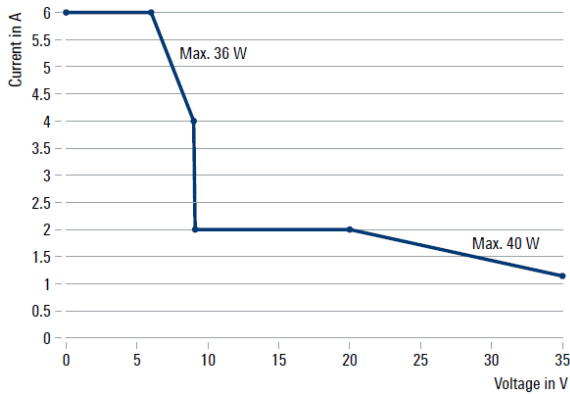
The R&S®NGA100 series operates with maximum power at various operating points and covers far more applications than single-range power supplies.
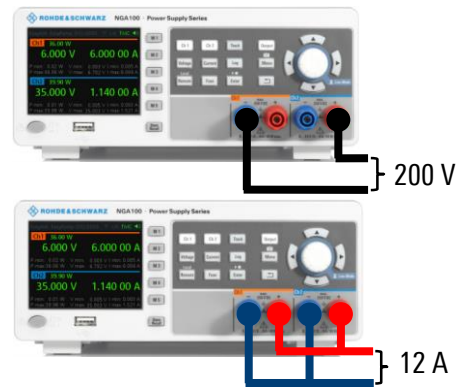
Channel fusion

200 V

12 A

Activate channel fusion in either serial or parallel mode and the device will act like a single-channel version of itself.

In serial mode, the outputs are connected internally, while the parallel mode requires external wiring.

Ordering information

Base unit	Type
One-channel power supply, 40 W, 35 V / 6 A	R&S®NGA101
Two-channel power supply, 80 W, 4 x 35 V / 6 A	R&S®NGA102
One-channel power supply, 40 W, 100 V / 2 A	R&S®NGA141
Two-channel power supply, 80 W, 2 x 100 V / 2 A	R&S®NGA142
Software options	
Wireless LAN remote control	R&S®NGA-K102
Digital trigger I/O	R&S®NGA-K103
System components	
19" rack adapter, 2 HU	R&S®HZN96
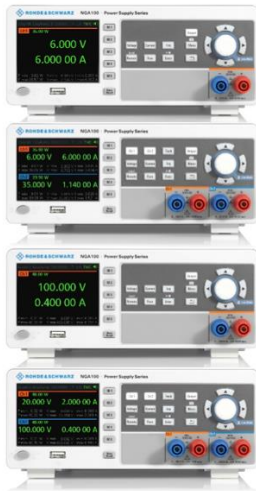
R&S®NGA101
One output
Max. 40 W total output power
Max. 35 V or max. 6 A per output

R&S®NGA102
Two outputs
Max. 80 W total output power
Max. 35 V or max. 6 A per output
Max. 70 V in serial or max. 12 A in parallel mode

R&S®NGA141
One output
Max. 40 W total output power
Max. 100 V or max. 2 A per output

R&S®NGA142
Two outputs
Max. 80 W total output power
Max. 100 V or max. 2 A per output
Max. 200 V in serial or max. 4 A in parallel mode

Features

EasyRamp

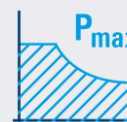Channel fusion

EasyArb

Remote sensing

Built-in measurements

Data logging

Save/recall device settings

FlexPower

Digital trigger I/O

High accuracy