ROHDE&SCHWARZ

Make ideas real

POWER SUPPLIES. VERSATILE AND COMPACT.

Flyer | Version 07.00

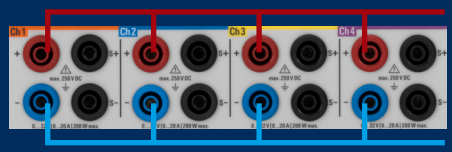
UNIQUE FEATURES FOR BETTER RESULTS

The Rohde&Schwarz power supply portfolio inlcudes instruments with up to five channels to cover a wide range of applications from the lab bench to production test systems. Backed by decades of experience in high-precision instrumentation, they set the standard for accurate measurements within the industry.

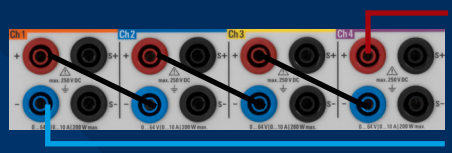
Parallel and serial operation

All channels are galvanically isolated and can be combined in series or parallel for higher voltages, up to 250 V with the R&S®NGP824 or 100 A with the R&S®NGT3622.

The output channels can be configured in parallel to achieve higher output current, or in series for higher output voltage (example: R&S®NGP800).



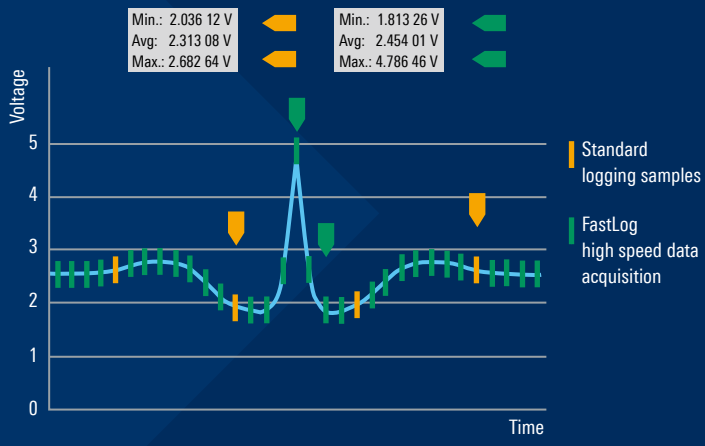
Parallel operation:
max. 80 A



Serial operation:
max. 250 V

Fast logging

The **fast logging feature** on the R&S®NGM200 and R&S®NGU power supplies records measurements with with a sample rate of up to 500 ksample/s, capturing even the shortest spikes (like an oscilloscope). Additionally, fast load regulation offers recovery times < 30 µs for stable outputs during rapid load changes. This is ideal for mobile and IoT devices with highly dynamic currents.

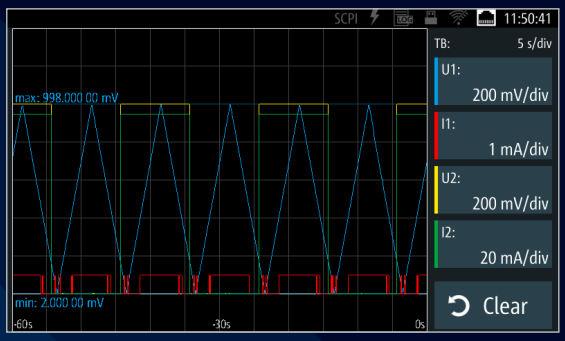


Protection functions to safeguard instrument and DUT

Protecting your device under test is essential during limit testing. The Rohde&Schwarz power supplies offer multiple protection features, including overcurrent protection (OCP), overvoltage protection (OVP), overpower protection (OPP) and overtemperature protection (OTP) to safeguard both your DUT and the instrument.

Full remote control

Control your device from anywhere with full VNC remote access and FTP file transfer capabilities. All functions that can be reached by manual operation can also be accessed via remote control.



The graphical view function interface on an R&S®NGP800 power supply.

Built-in measurements and graphical view function

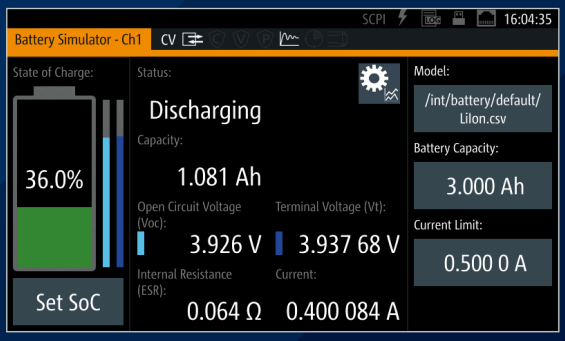
Built-in measurements reduce the need for external multimeters and simplify the setup. Integrated statistics show the minimum/maximum and average values for power, voltage, current and energy.

The **graphical view** function enables fast and convenient analysis.

Connections for all channels – including sense lines – are also provided on the rear panel

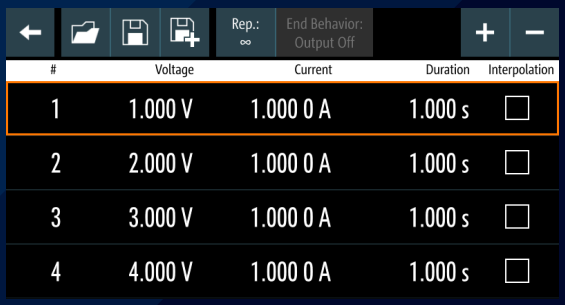
Remote sensing for demanding accuracy requirements

Remote sensing compensates voltage drops over supply leads and allows for more accurate results. Depending on the model, additional remote sensing lines are available for each output channel.



Battery simulation

The dedicated **battery simulation** in the R&S®NGM200 and R&S®NGU power supplies can help realistically test battery-powered devices by simulating charging and discharging behavior using adjustable parameters such as capacity, SoC and Voc. The dynamic simulation lets Voc, ESR and SoC change in real time for accurate evaluation of both battery performance and charger design.



#	Voltage	Current	Duration	Interpolation
1	1.000 V	1.000 0 A	1.000 s	☐
2	2.000 V	1.000 0 A	1.000 s	☐
3	3.000 V	1.000 0 A	1.000 s	☐
4	4.000 V	1.000 0 A	1.000 s	☐

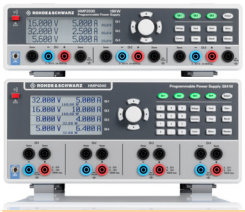
Arbitrary function

Emulate normal power subsystem behavior early in the design process and simulate power problems for DUT design verification. The arbitrary function lets you generate voltage and current sequences that vary over time.

LEARN MORE ABOUT DC POWER SUPPLY DESIGN AND MEASUREMENT CONCEPTS IN OUR FLYER: FUNDAMENTALS OF DC POWER SUPPLIES

POWER SUPPLY PORTFOLIO

	Basic units		
	R&S®NGE102B/103B	**R&S®NGC101(-G)/NGC102(-G)/NGC103(-G)**	**R&S®NGA101/102/141/142**
Electrical specifications			
Number of output channels	2/3	1/2/3	R&S®NGA101/141: 1; R&S®NGA102/142: 2
Maximum output power	66 W/100 W	100 W	40 W/80 W
Maximum output power per channel	33.6 W	100 W/50 W/33 W	40 W
Output voltage per channel	0 V to 32 V	0 V to 32 V	R&S®NGA101/102: 0 V to 35 V R&S®NGA141/142: 0 V to 100 V
Maximum output current per channel	3 A	10 A/5 A/3 A	R&S®NGA101/102: 6 A R&S®NGA141/142: 2 A
Voltage ripple and noise (RMS) (20 Hz to 20 MHz)	< 1.5 mV (typ.)	R&S®NGC101: < 1 mV R&S®NGC102/103: < 450 µV	R&S®NGA101/102: < 0.5 mV R&S®NGA141/142: < 1.5 mV
Current ripple and noise (RMS) (20 Hz to 20 MHz)	< 2 mA	R&S®NGC101: < 1.5 mA R&S®NGC102/103: < 1 mA	< 500 µA
Load recovery time [1]	< 200 µs	< 1 ms	R&S®NGA101/102: < 100 µs R&S®NGA141/142: < 50 µs
Programming/readback resolution			
Voltage	10 mV/10 mV	1 mV/1 mV	R&S®NGA101/102: 1 mV/1 mV R&S®NGA141/142: 10 mV/1 mV
Current	1 mA/1 mA	< 1 A: 0.1 mA (R&S®NGC101: 0.5 mA) ≥ 1 A: 1 mA	1 mA/10 µA (< 200 mA: 1 µA)
Readback accuracy (± (% of output + offset))			
Voltage	< 0.1 % + 20 mV	< 0.05 % + 2 mV	R&S®NGA101/102: < 0.02 % + 5 mV R&S®NGA141/142: < 0.02 % + 10 mV
Current	< 0.1 % + 5 mA	R&S®NGC101: < 0.2 % + 10 mA R&S®NGC102: < 0.1 % + 5 mA R&S®NGC103: < 0.05 % + 2 mA	< 0.05 % + 500 µA low-current measurement range: < 0.15 % + 40 µA
Special functions			
Measurement functions	voltage, current, power	voltage, current, power, energy	voltage, current, power
Protection functions	OVP, OCP, OPP, OTP	OVP, OCP, OPP, OTP	OVP, OCP, OPP, OTP
FuseLink function	●	● (R&S®NGC102/103)	●
Fuse delay	●	●	●
Remote sensing	–	●	●
Sink mode	–	–	–
Output delay	–	● (R&S®NGC102/103)	–
Trigger input/output	○/○	●/–	○/○
Arbitrary function	● (CH1: EasyArb)	● (EasyArb)	● (CH1: EasyArb)
Analog/modulation interface	–	●	–
Channel fusion	–	–	●
Data logging	–	● (standard mode)	● (standard mode)
Display and interfaces			
Display	3.5" QVGA	3.5" QVGA	3.5" QVGA
Front/rear panel connections	●/–	●/●	●/●
Remote control interfaces	standard: USB optional: LAN	standard: USB, LAN R&S®NGC10x-G models with IEEE-488 (GPIB)	standard: USB, LAN
General data			
Dimensions (W × H × D)	222 × 97 × 310 mm	222 × 97 × 291 mm	222 × 97 × 448 mm
Weight	4.9 kg/5.0 kg	2.6 kg (R&S®NGC10x-G models: 2.7 kg)	6.6 kg/7.0 kg/6.9 kg/7.3 kg
Rack adapter	R&S®HZC95 option	R&S®HZC95 option	R&S®HZN96 option



Performance units

R&S®HMP2020/2030; R&S®HMP4030/4040	R&S®NGP802/804/814/822/824
2/3; 3/4	R&S®NGP802/822: 2; R&S®NGP804/814/824: 4
188 W; 384 W	R&S®NGP802/822: 400 W; R&S®NGP804/814/824: 800 W
80 W, except R&S®HMP2020, CH1: 160 W; 160 W	200 W
0 V to 32 V	R&S®NGP802/804/814 (CH1, CH2): 0 V to 32 V R&S®NGP822/824/814 (CH3, CH4): 0 V to 64 V
5 A, except R&S®HMP2020, CH1: 10 A; 10 A	R&S®NGP802/804/814 (CH1, CH2): 20 A R&S®NGP822/824/814 (CH3, CH4): 10 A
< 1.5 mV	< 3 mV
< 1 mA	< 3.5 mA
< 1 ms	< 400 µs
1 mV/1 mV	1 mV/1 mV
< 1 A: 0.1 mA (10 A CH: 0.2 mA)/0.1 mA (10 A CH: 0.2 mA) ≥ 1 A: 1 mA/1 mA	0.5 mA/0.5 mA
< 0.05 % + 5 mV	R&S®NGP802/804/814 (CH1, CH2): < 0.05 % + 5 mV R&S®NGP822/824/814 (CH3, CH4): < 0.05 % + 10 mV
< 0.1 % + 2 mA	< 0.1 % + 5 mA
voltage, current	voltage, current, power, energy
OVP, OCP, OTP	OVP, OCP, OPP, OTP
●	●
●	●
●	●
–	–
–	●
–	o/o
● (EasyArb)	● (QuickArb)
–	o
–	–
–	● (standard mode)
240 × 64 pixel LCD	TFT 5" 800 × 480 pixel WVGA touch
●/●	●/●
optional: USB, LAN, IEEE-488 (GPIB), RS-232	standard: USB, LAN optional: IEEE-488 (GPIB)
285 × 95 × 405 mm; 285 × 136 × 405 mm	362 × 100 × 451 mm
7.8 kg/8.0 kg; 12.4 kg/12.8 kg	7.5 kg/8.0 kg
R&S®HZ42 option	R&S®ZZA-GE23 option

	High-precision power supplies
R&S®NGT3621/3622	**R&S®NGL201/202**
1/2	1/2
1800 W/3600 W	60 W/120 W
1800 W	60 W
2 V to 80 V	0 V to 20 V
50 A	≤ 6 V output voltage: 6 A > 6 V output voltage: 3 A
< 5 mV	< 500 µV
< 10 mA	< 1 mA
< 1.5 ms	< 30 µs
1 mV/1 mV	1 mV/10 µV
1 mA/100 µA (< 2.5 A: 5 µA)	0.1 mA/10 µA
0.03% + 6 mV	< 0.02% + 2 mV
0.05% + 8 mA low-current measurement range: 0.05% + 500 µA	< 0.05% + 250 µA
voltage, current, power	voltage, current, power, energy
OVP, OCP, OPP, OTP	OVP, OCP, OPP, OTP
● (R&S®NGT3622)	● (R&S®NGL202)
●	●
●	●
–	●
●	● (R&S®NGL202)
●/●	○/○
●	● (QuickArb)
●	–
●	–
● (standard mode)	● (standard mode)
4.3" TFT, 480 × 272 pixel, WQVGA touch	TFT 5" 800 × 480 pixel WVGA touch
–/●	●/●
USB, LAN	standard: USB, LAN optional: IEEE-488 (GPIB)
481 × 88 × 565 mm	222 × 97 × 436 mm
13.5 kg/18.5 kg	7.1 kg/7.3 kg
–	R&S®HZN96 option

R&S®NGM201/202	R&S®NGU201/401/411
1/2	1
60 W/120 W	60 W (R&S®NGU411: 20 W)
60 W	60 W (R&S®NGU411: 20 W)
0 V to 20 V	R&S®NGU201: 0 V to 20 V R&S®NGU401/411: –20 V to +20 V
≤ 6 V output voltage: 6 A > 6 V output voltage: 3 A	≤ 6 V output voltage: 8 A (R&S®NGU411: ≤ 10 V: 2 A) > 6 V output voltage: 3 A (R&S®NGU411: > 10 V: 1 A)
< 500 µV	< 500 µV
< 1 mA	< 1 mA
< 30 µs	< 30 µs
20 V range: 1 mV/10 µV 5 V range: 1 mV/1 µV	20 V range: 200 µV/10 µV 6 V range: 50 µV/1 µV
10 A range: 0.1 mA/10 µA 1 A range : 0.1 mA/1 µA 100 mA range: 0.1 mA/100 nA 10 mA range: 0.1 mA/10 nA	10 A range: 50 µA/10 µA (not for R&S®NGU411) 3 A range: 25 µA/1 µA (R&S®NGU411: 2 A range) 100 mA range: 1 µA/100 nA 10 mA range: 100 nA/10 nA 1 mA range: 100 nA/1 nA 10 µA range: 100 nA/100 pA
20 V range: < 0.02% + 2 mV 5 V range: < 0.02% + 500 µV	20 V range: < 0.02% + 2 mV 6 V range: < 0.02% + 500 µV[2]
10 A range: < 0.05% + 250 µA (< 0.05% + 100 µA with R&S®NGM- B301 option installed) 1 A range: < 0.05% + 1 mA 10 mA range: < 0.05% + 15 µA 100 mA range: < 0.05% + 100 µA	10 A range: < 0.025% + 500 µA (not for R&S®NGU411) 3 A range: < 0.025% + 250 µA (R&S®NGU411: 2 A range) 100 mA range: < 0.025% + 15 µA 10 mA range: < 0.025% + 1.5 µA 1 mA range: < 0.025% + 150 nA 10 µA range: < 0.025% + 15 nA[2]
voltage, current, power, energy	voltage, current, power, energy
OVP, OCP, OPP, OTP	OVP, OCP, OPP, OTP
● (R&S®NGM202)	–
●	●
●	●
●	●
● (R&S®NGM202)	–
○/○	○/○
● (QuickArb)	● (QuickArb)
–	R&S®NGU411/401: modulation interface
–	–
● (standard and fast mode)	● (standard and fast mode)
TFT 5" 800 × 480 pixel WVGA touch	TFT 5" 800 × 480 pixel WVGA touch
●/●	●/●
standard: USB, LAN optional: IEEE-488 (GPIB)	standard: USB, LAN optional: IEEE-488 (GPIB)
222 × 97 × 436 mm	222 × 97 × 436 mm
7.2 kg/7.4 kg	7.1 kg
R&S®HZN96 option	R&S®HZN96 option

[1] For the precise measurement criteria, refer to the corresponding specifications document.

[2] In the most sensitive measurement range.

All data is valid at +23 °C (– 3 °C/+ 7 °C) after 30 minutes of warm-up time.

All values are measured values if not otherwise stated.

CH: channel; ● yes; – no; ○ optional

Rohde&Schwarz
The Rohde&Schwarz technology group is among the trailblazers when it comes to paving the way for a safer and connected world with its leading solutions in test&measurement, technology systems and networks&cybersecurity. Founded more than 90 years ago, the group is a reliable partner for industry and government customers around the globe. The independent company is headquartered in Munich, Germany and has an extensive sales and service network with locations in more than 70 countries.

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- Long-term dependability

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- Energy efficiency and low emissions
- Longevity and optimized total cost of ownership

Certified Quality Management
ISO 9001

Certified Environmental Management
ISO 14001

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