NGM200系列电源
一流的速度与精度

产品应用

电池测试	电源功率测试
模拟电压跌落	超高灵敏设计

关键性能

是哪些方面让它与众不同?

▌ 高速FastLog捕获s级电压值和电流值的变化和快速负载调节

▌ 最小残余纹波和噪声

▌ 以每秒500k的采样率记录电压和电流值

▌ 高精度和高读数达6 $\frac{1}{2}$ 位分辨率

▌ 双象限：用作源端和吸收端

▌ 电池模拟

关键指标	NGM201	NGM202
每输出通道	1	2
总输出功率	60 W	120 W
每通道最大输出功率	max. 60 W	
每通道最大输出电压	0 V to 20 V	
每通道最大输出电流	≤ 6 V: 6 A, > 6 V: 3 A	
负载恢复时间	< 30us	
最大回读分辨率	1uV/10 nA	

Your benefit	Features
Minimal overshoot from abrupt load changes	▌ Optimized load recovery time < 30 us ▌ Handles abrupt load changes from a few uA to the ampere range without creating voltage drops or overshoots
Supply interference-free voltage to sensitive designs	Low ripple and noise values allow you to supply interference-free voltage to sensitive designs such as complex semiconductors and to support the development of power amplifiers and MMICs
Capture fast variations in voltage/current	▌ Acquisition rate: up to 500 ksample/s ▌ Voltage and current results available every 2us ▌ On the R&S®NGM202, data acquisition on both channels in parallel
Realistic battery simulation	▌ Simulate the actual battery output performance ▌ Testing can be based on a selected battery model ▌ Battery capacity, SoC and Voc can be set to any state to test the device under specific circumstances

ROHDE & SCHWARZ

Readings with up to 6½ digit resolution

With a resolution of up to 6½ digits when measuring voltage, current and power, the R&S®NGM200 power supplies are perfect for measurements on devices that have low power consumption in standby mode and high current in full load operation. Two voltage measurement ranges and four current measurement ranges provide a high accuracy and resolutions down to 1 µV/10 nA.
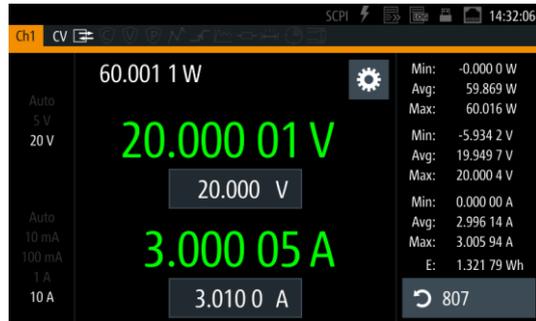
The high-resolution display provides additional information such as power values and statistics.

Optimized load recovery time
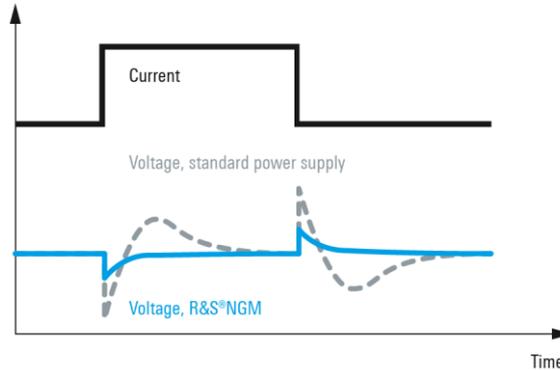
Under challenging load conditions, most power supplies respond with slow recovery times and overshoots. Specially developed circuits in the R&S®NGM200 power supplies achieve a load recovery time of < 30 µs with minimal overshoot, making them perfect for supplying sensitive components.

Two-quadrant operation, minimum ripple and noise

The architecture of the R&S®NGM200 power supplies allows them to function both as a source and a sink.
The instruments automatically switch between sink and source operation. In this example, channel 2 works as a load.

The linear design of the output stages reduces residual ripple and noise to a minimum and makes them perfect for the development of power amplifiers and MMICs.

Battery simulation

When battery-operated devices have to be optimized for lifecycle, the discharging behavior of the used battery type needs to be considered. The battery simulator function makes it possible to simulate the real battery output performance. Testing can be based on a selected battery model, while battery capacity, SoC and Voc can be set to any state to test the device under specific circumstances.

The charging behavior of a battery can also be simulated, for example when designing battery chargers. In this application, the R&S®NGM200 is used in sink mode.

Easy operation

The high-resolution capacitive touchscreen is the central operating element for the R&S®NGM200 power supplies. Icons clearly show the status of set protection or special functions. When the power supply is in constant voltage mode, the numbers and the keys light up green. Red is used for constant current mode. The Output key lights up blue to indicate that the channels are switched on (active).

Ordering information

Base unit	
Single-channel power supply	R&S®NGM201
Two-channel power supply	R&S®NGM202
Hardware options	
IEEE-488 (GPIB) interface	R&S®NGM-B105
Software options	
Wireless LAN remote control	R&S®NGM-K102
Digital I/O trigger	R&S®NGM-K103
Digital voltmeter functionality	R&S®NGM-K104
Battery simulation	R&S®NGM-K106
System components	
19" rack adapter, 2 height units	R&S®HZN96

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