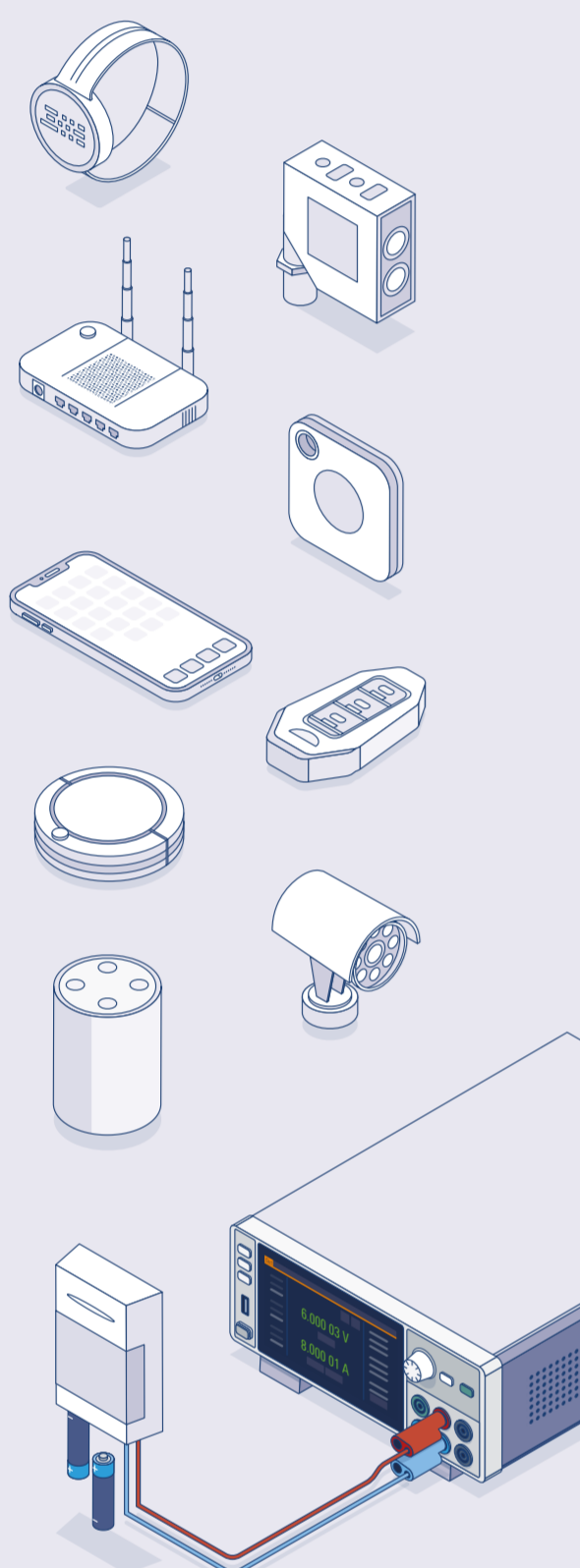


POWERING DEMANDING APPLICATIONS

Rohde & Schwarz high precision power supplies are very accurate with fast load recovery times, making them ideal for challenging applications such as battery and power consumption tests or voltage drop simulation.

Meeting demand for IOT device testing

Many new energy devices have two characteristics that make testing a challenge:
Short peak changes in voltage or current, and power consumption rises very quickly. They also consume very little power in standby mode.
The R&S[®]NGL200, R&S[®]NGM200 and R&S[®]NGU high precision power supplies from Rohde & Schwarz have high-speed logging and fast load regulation for the highly accurate testing of IoT devices.



The easiest way to test

Simply remove the batteries from the DUT and connect the power supply instead.

Learn more about our high precision power supplies here:
www.rohde-schwarz.com/products/highprecisionpowersupplies

FAST LOAD REGULATION

Without fast load regulation

- When the current increases, it causes the voltage regulated by the power supply to drop.
- In battery-powered devices, this voltage drop does not take place, and the desired voltage is immediately available.
- To simulate this process as closely as possible, the power supply must quickly readjust the voltage jump and return to the set voltage.

With fast load regulation

- In contrast to basic power supplies, Rohde & Schwarz high-precision power supplies have an extremely short load recovery time of less than 30 microseconds, mastering load changes with minimal overshoot.

HIGH SPEED LOGGING

Without high speed logging

- To analyse the behaviour of a DUT, voltage and current are measured and logged.
- A low sampling rate can cause significant values to be lost, especially when the emitted signal is very short.
- Missed current peaks lead to incorrect product battery life calculations.

With high speed logging

- The Rohde & Schwarz high-precision R&S[®]NGM and R&S[®]NGU power supplies have a sampling rate of up to 500.000 samples per second.
- All voltage and current values are available every 2 μ s, for exceptionally accurate measurements.

An unparalleled, easy-to-use interface

High resolution touch screen for optimized readability of all values

Functional control knob makes it easy to change values

Resolution of up to 6 1/2 digits helps characterize equipment with low standby power consumption and high full load current

Quick navigation through device and channel menus to access all functions and settings

Quick analysis of voltage and current ranges on the left and minimum, maximum and average power, voltage and current values on the right of the channel view

Intuitive toolbar displays all operating modes and highlights active ones

Remote control of all functions from any location via a VNC connection

Test solutions with high precision power supplies

R&S [®] NGL201 R&S [®] NGL202	R&S [®] NGM201 R&S [®] NGM202	R&S [®] NGU201	R&S [®] NGU401 R&S [®] NGU411	
1/10 μ V	2/5 μ V	2/1 μ V	2/1 μ V	Number of voltage ranges / readback resolution
1/10 μ A	4/10 nA	6/100 pA	6/100 pA	Number of current ranges / readback resolution
	✓	✓	✓	FastLog function
	✓	✓	✓	Battery simulation (optional)
	✓	✓	✓	Digital voltmeter function (optional)
		✓	✓	Current priority mode
		✓	✓	High capacitance mode
			✓	Bipolar voltages 4 quadrants



