

R&S®NGL200

vs Keysight 66319B



Key features

- Fast regulation of output voltage with minimum overshoot and very fast load recovery time
- Minimum residual ripple and noise to supply interference-free voltage to sensitive DUTs
- Readings with up to 6½ digit resolution are perfect for characterizing devices that have low power consumption in standby mode and high current in full load operation
- Two quadrants: operates as source or sink

Your benefit	Features
Optimized load recovery time with minimal overshoot	Due to the optimized load recovery time of < 30 µs with minimal overshoot during challenging load conditions, the R&S®NGL200 instruments are perfect when testing IoT and other battery powered devices which require very little current in sleep mode and abruptly increase current when switching to transmit mode.
Low ripple and noise	To supply interference-free voltage to sensitive designs such as complex semiconductors and to support the development of power amplifiers and MMICs.
Sink and source operation	The linear two-quadrant output amplifier design of the R&S®NGL200 series enables sink and source operation to simulate batteries and loads.
6½ digit resolution	With up to 6½ digit resolution when measuring voltage, current and power, the R&S®NGL200 series is optimal for characterization of devices with low standby power consumption and high current in full load operation. It can even replace an additional DMM in many applications.

► For more information, visit www.rohde-schwarz.com/catalog/ngl200

Parameter	R&S®NGL201/NGL202	Keysight 66319B
Number of channels	1 / 2	2 (data channel 2)
Output voltage per channel	0 V to 20 V	0 V to 15 V (12 V)
Max. output power per channel	60 W	45 W (18 W)
Max. output current per channel	≤ 6 V output voltage: 6 A > 6 V output voltage: 3 A	3 A (1.5 A)
Max. sink current per channel	3 A	2 A (0.03 A)
Voltage ripple and noise (20 Hz to 20 MHz)	< 500 µV (RMS) < 2 mV (peak-to-peak)	< 1 mV (RMS) < 6 mV (peak-to-peak)
Current ripple and noise (20 Hz to 20 MHz)	< 1 mA (RMS)	< 2 mA (RMS)
Load recovery time (20 mV)	< 30 µs	< 35 µs
Programming resolution	1 mV / 0.1 mA	1 mV / 0.1 mA
Readback resolution	10 µV / 10 µA	1 mV / 0.1 mA
Readback accuracy voltage	< 0.02 % + 2 mV	< 0.03 % + 5 mV (< 0.2 % + 15 mV)
Readback accuracy current	< 0.05 % + 250 µA	5 A range: < 0.2 % + 0.5 mA 20 mA range: < 0.1 % + 2.5 µA
Protection functions	OCP / OVP / OPP / OTP	OVP / OTP
Arbitrary (min. step)	QuickArb (1 ms)	N/A
Remote control interfaces	standard: USB / LAN optional: WLAN / IEEE-488 (GPIB)	standard: IEEE-488 (GPIB)
Display	5", 800 x 480 WVGA cap. touchscreen.	14-character display
Dimensions W x H x D	222 mm x 97 mm x 436 mm	213 mm x 88 mm x 435 mm
Weight	7.1 kg / 7.3 kg	9.1 kg

R&S®NGL200 series and Keysight 66300 series



R&S®NGL200 series

- 2 instruments, 1 or 2 channels
- Power: 60 W per channel
- Output voltage: 0 V to 20 V per channel

Keysight 66300 series:

- 8 instruments, 1 or 2 channels channel 2 with limited data
- Power: 45 W per channel (Keysight 66332A: 100 W)
- Voltage: 0 V to 15 V (Keysight 66332A: 0 V to 20 V)



R&S®NGL200 series: worldwide availability



R&S®NGL202

- Both channels provide 60 W per channel
- 0 V to 20 V output voltage
- Same functionality

Keysight 66300 series:

Instruments on the market for more than 10 years; no longer available in the EU due to lack of compliance with EU RoHS directive 2011/65/EU



Source and sink and 6½ digit resolution



A resolution of up to 6½ digits is perfect for characterizing DUTs that have low power consumption in standby mode and high current in full load operation. The R&S®NGL200 power supplies automatically switch from source to sink mode. Operating as a load is indicated by a negative current reading.

Large touchscreen – new standard for power supplies



The large capacitive touchscreen is the central operating element. With its very high resolution of 800 x 480 pixel, the display makes it easy to read the voltage and current fields even at great distances. Additionally, information such as power values or statistics can be displayed. Icons clearly show the status of the set protection or special functions.

