



R&S®NGL202 versus Keysight E3632A



Key features

- ▶ Fast regulation of output voltage with minimal overshoot and very fast load recovery time
- ▶ Minimal residual ripple and noise to supply interference-free voltage to sensitive DUTs
- ▶ With a resolution of up to 6 ½ digits, the power supplies 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 and sink

Your benefit	Features
Optimized load recovery time with minimal overshoot	<ul style="list-style-type: none"> ▶ Thanks to the optimized load recovery time of < 30 μs with minimal overshoot under challenging load conditions, the R&S®NGL200 instruments are perfect for testing IoT and other battery-powered devices that require very little current in sleep mode and abruptly increase current when switching to transmit mode
Display	<ul style="list-style-type: none"> ▶ The large capacitive touchscreen is the central element for operating the R&S®NGL200 power supply series ▶ Briefly tapping a numeric value displays a virtual keyboard to enter the desired value ▶ With its high resolution of 800 × 480 pixel, the display sets new standards for power supplies
Low ripple and noise	<ul style="list-style-type: none"> ▶ To supply interference-free voltage to sensitive components, such as complex semiconductors, and to support the development of power amplifiers and MMICs
Sink and source operation	<ul style="list-style-type: none"> ▶ The linear two-quadrant output amplifier design of the R&S®NGL200 series enables sink and source operation to simulate batteries and loads
6 ½ digit resolution	<ul style="list-style-type: none"> ▶ With a resolution of up to 6½ digits for voltage, current and power measurement, the R&S®NGL200 series is ideal for characterization of devices with low standby power consumption and high peak currents



For prices and more information, visit
www.rohde-schwarz.com/product/NGL200

Parameter	R&S®NGL201/NGL202	Keysight E3632A
Number of channels	2	1
Output voltage per channel	0 V to 20 V	0 V to 30 V
Max. output voltage	40 V (serial operation)	30 V
Max. output power per channel	60 W	120 W
Max. output power	120 W	120 W
Max. output current per channel	≤ 6 V output voltage: 6 A > 6 V output voltage: 3 A	≤ 15 V output voltage: 7 A ≤ 30 V output voltage: 4 A
Programming resolution	1 mV/0.1 mA	1 mV/0.5 mA
Programming accuracy	< 0.02 % + 3 mV < 0.05 % + 2 mA	< 0.05 % + 10 mV < 0.2 % + 10 mA
Voltage ripple and noise (20 Hz to 20 MHz)	< 500 μV (RMS)	< 350 μV (RMS)
Current ripple and noise (20 Hz to 20 MHz)	< 1 mA (RMS)	< 2 mA (RMS)
Load recovery time	< 30 μs	< 50 μs
Output ramp function	EasyRamp	no
Arbitrary function	QuickArb	no
Data logging	standard mode (10 sample/s)	no
Readback resolution	10 μV/10 μA	0.5 mV/0.1 mA
Readback accuracy	< 0.02 % + 2 mV < 0.02 % + 250 μA	< 0.05 % + 10 mV < 0.2 % + 10 mA
Protection functions	OCP/OVP/OTP/OPP	OCP/OVP
Remote control interfaces	standard: USB/LAN optional: IEEE-488 (GPIB)	standard: GPIB, RS-232
Command processing time	< 6 ms	< 100 ms
Channels galvanically isolated	yes	no
Dimensions (W × H × D)	222 mm × 97 mm × 436 mm	213 mm × 133 mm × 348 mm
Weight	7.3 kg	9.5 kg

Interfaces

Interface	LAN	USB	GPIB	RS-232
R&S®NGL202	Standard	Standard	Optional	–
Keysight E3632A	–	–	Standard	Standard

R&S®NGL202



Keysight E3632A



Source and sink and 6 ½ digit resolution

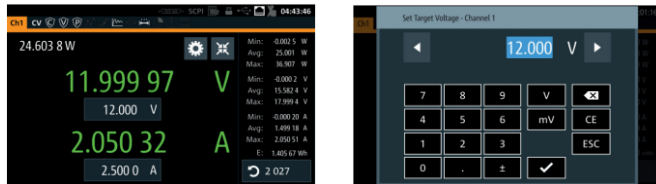


- ▶ A resolution of up to 6 ½ digits is perfect for characterizing DUTs that have low power consumption in standby mode and high current in full load operation
- ▶ The R&S®NGL200 power supplies automatically switch from source to sink mode
- ▶ Operation as a load is indicated by a negative current reading
- ▶ In this example, channel 2 operates as a load
- ▶ The high-resolution display provides additional information such as power values and statistics

Display

R&S®NGL202

The very large capacitive touchscreen with a resolution of 800 x 480 pixel makes it easy to read the values, even at great distances. Icons clearly show the status of the set protection or special functions. Lightly tapping a numerical value brings up a virtual keyboard to enter the desired value.



Keysight E3632A

14-character VFD display



Advantages of the R&S®NGL202 over the Keysight E3632A



QuickArb
4096 points
per cycle



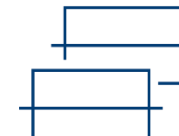
Save/recall
device settings



EasyRamp
10 ms to 10 s



Screenshot



FuseLink