ROHDE&SCHWARZ

Make ideas real

R&S®NGU411 versus Keysight B2901BL







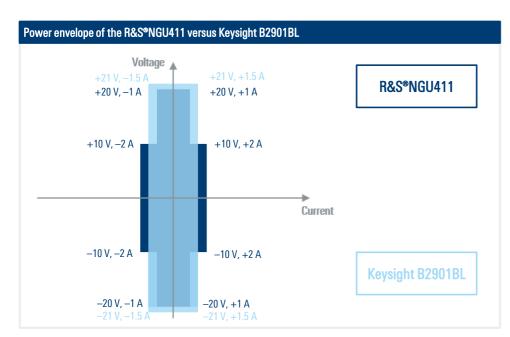
What sets this source measure unit apart?

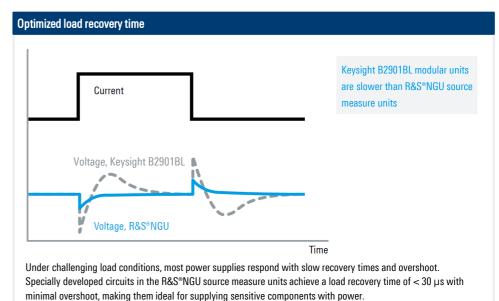
- ▶ Minimal residual ripple and noise to supply interference-free voltage to sensitive DUTs
- ► Fast regulation of output voltage with minimal overshoot and very fast load recovery time
- ► Acquisition rate of up to 500 ksample/s to capture extremely fast variations in voltage and current
- ► Voltage priority and current priority mode
- ► High-capacitance mode
- ► Modulation input

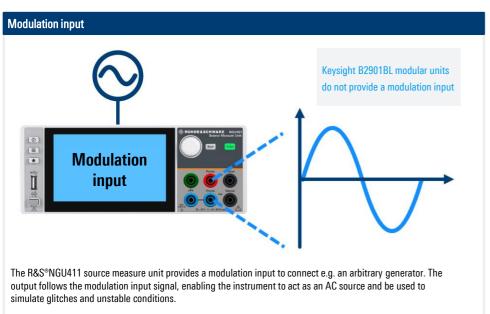
Your benefit	Features
Minimal overshoot from abrupt load changes	 ▶ Optimized load recovery time of < 30 µs ▶ Handles abrupt load changes from a few nA to the ampere range without creating voltage drops or overshoots
Capture fast variations in voltage/current	 Acquisition rate of up to 500 ksample/s Voltage and current results available every 2 µs
Supply positive and negative voltages and currents	► Four-quadrant operation allows the R&S®NGU411 to act as a source or sink for both polarities. This enables tasks such as measuring the forward and reverse characteristics of semiconductor devices in a single test operation without having to make changes to the circuit.
Can act as an AC source	► The R&S®NGU411 source measure unit provides a modulation input to connect e.g. an arbitrary generator. The output follows the modulation input signal, enabling the instrument to act as an AC source and be used to simulate glitches and unstable conditions.

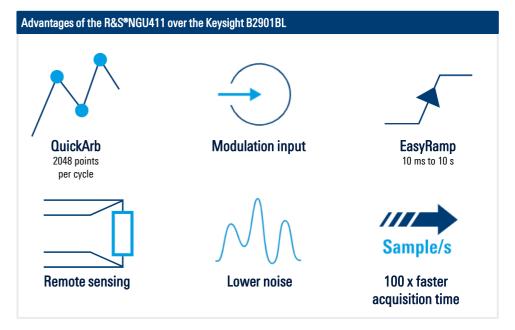
De contour de	
R&S®NGU411	Keysight B2901BL
±20 V/2 A/20 W	±21 V/1.5 A/31.8 W
$<$ 500 μ V (meas.)	noise: < 3 mV; ripple not specified
< 1 mA (meas.)	not specified
< 30 µs (meas.)	< 80 µs
< 100 µs / < 100 µs	not specified
voltage, current, power, energy	voltage, current, resistance
2/5	3/8
1 μV/100 pA	100 nV/1 pA
< 0.025 % + 100 µV	< 0.015 % + 225 µV
< 0.025 % + 15 nA	< 0.025 % + 500 pA
500 ksample/s (2 μs)	5 ksample/s (200 μs)
QuickArb (100 µs)	sweep (200 µs)
OVP, OCP, OPP, OTP	ОТР
optional	yes
yes (470 µF)	yes (50 µF)
yes	no
yes	no
	< 500 μV (meas.) < 1 mA (meas.) < 30 μs (meas.) < 100 μs / < 100 μs voltage, current, power, energy 2/5 1 μV/100 pA < 0.025 % + 100 μV < 0.025 % + 15 nA 500 ksample/s (2 μs) QuickArb (100 μs) 0VP, OCP, OPP, OTP optional yes (470 μF)











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Trade names are trademarks of the owners | R&S®NGU411 versus Keysight B2901BL | Data without tolerance limits is not binding

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