ROHDE&SCHWARZ

Make ideas real

PS>

R&S®NGU411 versus Keysight B2901BL





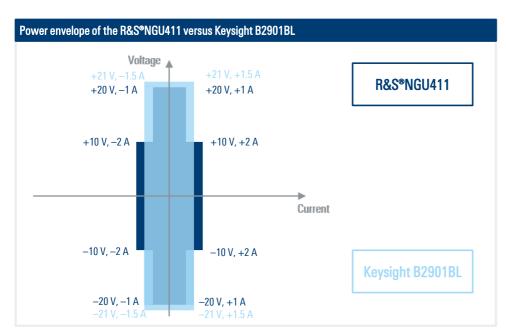
What sets this source measure unit apart?

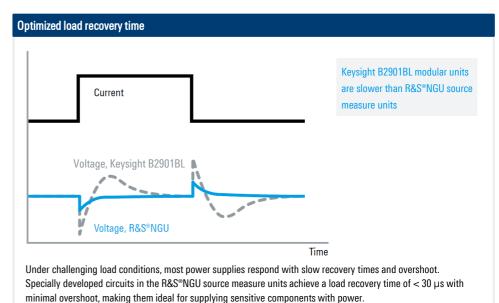
- ▶ Minimal residual ripple and noise to supply interference-free voltage to sensitive DUTs
- ► Fast regulation of output voltage with minimal overshoot and very fast load recovery time
- ► Acquisition rate of up to 500 ksample/s to capture extremely fast variations in voltage and current
- ► Voltage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

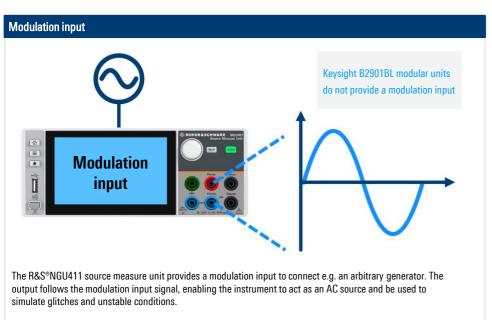
Your benefit	Features	
Minimal overshoot from abrupt load changes	 ▶ Optimized load recovery time of < 30 µs ▶ Handles abrupt load changes from a few nA to the ampere range without creating voltage drops or overshoots 	
Capture fast variations in voltage/current	 Acquisition rate of up to 500 ksample/s 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.	

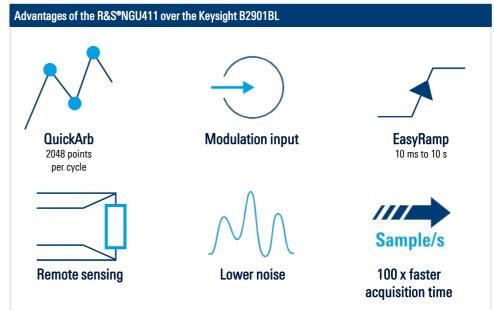
Parameter	R&S®NGU411	Keysight B2901BL
Max. voltage/current/power	±20 V/2 A/20 W	±21 V/1.5 A/31.8 W
Voltage ripple and noise (RMS)	< 500 μV (meas.)	noise: < 3 mV; ripple not specified
Current ripple and noise (RMS)	< 1 mA (meas.)	not specified
Load recovery time	< 30 µs (meas.)	< 80 µs
Rise time/fall time	< 100 µs / < 100 µs	not specified
Measurement functions	voltage, current, power, energy	voltage, current, resistance
Measured voltage/current ranges	2/5	3/8
Max. readback resolution	1 μV/100 pA	100 nV/1 pA
Max. voltage readback accuracy	< 0.025 % + 100 µV	< 0.015 % + 225 µV
Max. current readback accuracy	< 0.025 % + 15 nA	< 0.025 % + 500 pA
Max. acquisition rate (min. step)	500 ksample/s (2 µs)	5 ksample/s (200 μs)
Arbitrary function (min. step)	QuickArb (100 µs)	sweep (200 µs)
Protective functions	OVP, OCP, OPP, OTP	ОТР
Digital I/O	optional	yes
High-capacitance mode (maximum capacitance)	yes (470 μF)	yes (50 µF)
Current priority mode	yes	no
Modulation input	yes	no













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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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