ROHDE&SCHWARZ

Make ideas real



R&S®NGU201

versus Keysight N6781A / N6782A





What sets this source measure unit apart?

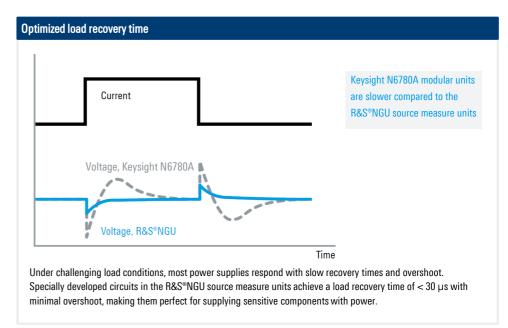
- ► Minimum residual ripple and noise to supply interference free voltage to sensitive DUTs
- ► Fast regulation of output voltage with minimum overshoot and very fast load recovery time
- ► Adjustable output impedance
- ► Constant resistance mode for sink operation
- ► Acquisition rate of up to 500 ksample/s to capture extremely fast variations in voltage or current
- ► Voltage priority and current priority mode
- ► High-capacitance mode
- ► Battery simulation

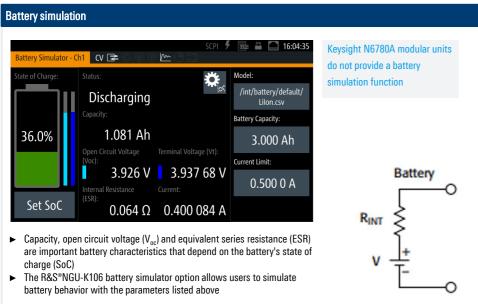
Your benefit	Features	
Minimal overshoot from abrupt load changes	 ▶ Optimized load recovery time of < 30 µs ▶ Handles abrupt load changes from a few nA to the ampere range without creating voltage drops or overshoots 	
Capture fast variations in voltage/current	 Acquisition rate of up to 500 ksample/s Voltage and current results available every 2 µs 	
Realistic battery simulation	 ➤ Simulate the actual battery output performance ➤ Testing can be based on a selected battery model ➤ Battery capacity, SoC and V_{oc} can be set to any state to test the device under specific circumstances 	

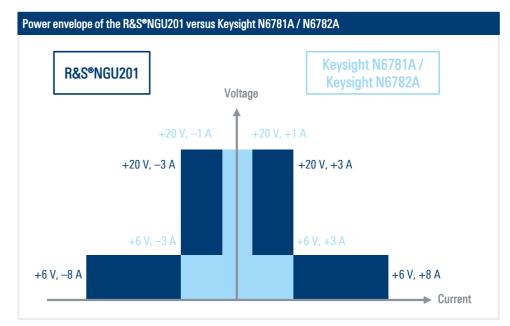
Parameter	R&S®NGU201	Keysight N6781A	Keysight N6782A
Max. voltage/current/power	20 V / 8 A / 60 W	20 V / 3 A / 20 W	
Adjustable output impedance	$-50~\text{m}\Omega$ to $100~\Omega$	yes	no
Voltage ripple and noise (RMS)	< 500 µV (meas.)	< 1.2 mV	
Current ripple and noise (RMS)	< 1 mA (meas.)	noise $<$ 200 μ A, ripple not specified	
Load recovery time	< 30 µs (meas.)	< 35 µs	
Rise time/fall time	< 100 µs / < 100 µs	10 µs / not specified	
Measured voltage/current ranges	2/6	3 / 4	
Max. readback resolution	1 μV / 100 pA	1 μV / 100 pA	
Max. voltage readback accuracy	< 0.02 % + 500 µV	$< 0.025 \% + 50 \mu V$	
Max. current readback accuracy	< 0.025 % + 15 nA	< 0.025 % + 8 nA	
Max. acquisition rate (min. step)	500 ksample/s (2 µs)	200 ksample/s (5 µs)	
High-capacitance mode	yes	no	
Current priority mode	yes	yes	
Digital voltmeter input	optional	yes	no
Modulation input	no	no	yes
Battery simulation	optional	no	
Standalone instrument	yes	modules for Keysight N6700C/N6705C base units	











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