



R&S® NGE100B versus Keysight E3631A



Fitting your daily needs

- ▶ All channels are galvanically isolated and floating
- ▶ All channels are electrically equivalent with the same voltage, current and power
- ▶ Parallel and serial operation
- ▶ Protective functions to safeguard instrument and DUT
- ▶ Tracking and link functions
- ▶ Remote control via USB interface and optional LAN

Your benefit	Features
Straightforward operation	<ul style="list-style-type: none"> ▶ All basic functions can be performed via dedicated keys on the front panel ▶ The voltage or current can be adjusted with the rotary knob
Each output channel can work like an individual power supply	<ul style="list-style-type: none"> ▶ All channels are electrically equivalent, galvanically isolated, floating and can be combined in serial and in parallel to achieve higher voltages or currents
Small, compact and quiet	<ul style="list-style-type: none"> ▶ Combination of primary transformer, secondary switching regulator and additional linear control reduces weight and size while maintaining robustness and low ripple

Parameter	R&S® NGE100B	Keysight E3631A
Size	½ / 19" 2HU	½ / 19" 3HU
Channels	2 or 3	3
Equivalent channels	yes	no
All channels galv. isolated	yes	no
Voltage	0 V to 32 V	0 V to 6 V / 0 V to +/-25 V
Current	0 A to 3 A	0 A to 5 A / 0 A to 1 A
Max. output power	66 W / 100 W	80 W
Ripple V (20Hz to 20MHz)	< 1 mV _{RMS}	< 500 µV _{RMS}
Ripple I (20Hz to 20MHz)	< 2 mA _{RMS}	< 2 mA _{RMS}
Display	TFT 3.5" QVGA	VFD
Setting resolution	10 mV / 1 mA	1.5 mV/0.1 mA
Readback resolution	10 mV / 1 mA	10 mV/0.1 mA
Sense	no	no
Tracking (V/I)	yes / yes	no / no
Arbitrary	EasyArb	timer
Electronic fuse	yes, with FuseLink	yes
Protection	OCP / OVP / OTP	OCP / OVP / OTP
Interface	USB, LAN (opt.)	RS-232 / GPIB
Command processing time	< 10 ms	< 50 ms
Certifications	CE, TÜV, LXI	CE, TÜV, LXI



For prices and more information, visit
www.rohde-schwarz.com/product/NGE100B

Arbitrary function

EasyArb				
EasyArb Mode on Ch 1				Enabled
EasyArb Repetition				1
Number of Data Points				4
N	Voltage	Current	Duration	
1	5.00 V	0.900 A	1.00 s	
2	10.00 V	0.700 A	5.00 s	
3	3.00 V	1.000 A	0.03 s	
4	10.00 V	0.800 A	60.00 s	
Apply EasyArb Data				Apply
Clear Data Points				Clear

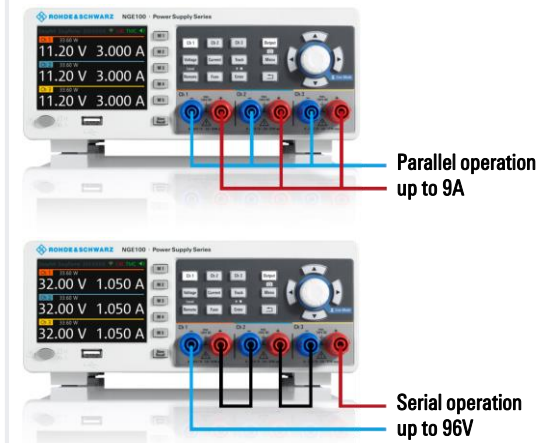
EasyArb allows the user to program time/voltage or time/current sequences.

Built for production

Digital IO			
DIO 1	DIO 2	DIO 3	DIO 4
Direction	Trigger In		
Channel	Ch 1		
Response	Start EasyArb		
Trigger	Pulse		
Logic	Active High		
Status	Enabled		

Digital I/O option makes production integration a breeze.

Parallel and serial operation

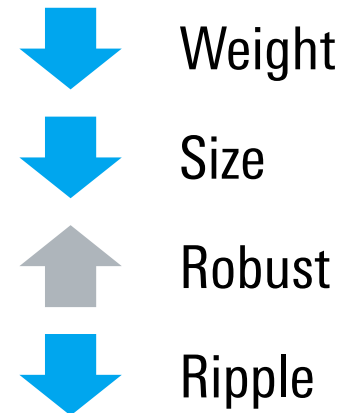


Running in parallel, higher currents can be achieved; serial connected channels yield higher voltages.



With electrically equivalent channels and galvanically isolated outputs, the single channels of the R&S®NGE100B work like individual power supplies.

The Rohde & Schwarz advantage



Combination of primary transformer, secondary switching regulator and additional linear control reduces weight and size, yet maintains robustness and low ripple.

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