R&S®NGE100B

versus
Keysight E3631A

Fitting your daily needs

▐ All channels are galvanically isolated and earth-free
▐ All channels are electrically equivalent with the same voltage, current and power
▐ Parallel and serial operation
▐ Protection functions to safeguard instrument and DUT
▐ Tracking and link functions
▐ Remote control via USB interface and optional LAN or wireless LAN, unique in this class

Your benefit	Features
Straightforward operation	All basic functions can be operated via direct keys on the front panel. The rotary knob can be used to adjust the desired voltage or current.
The separate output channels can work like individual power supplies	All channels are electrically equivalent, galvanically isolated, earth-free and can be combined in serial or in parallel to achieve higher voltages or currents.
Small, compact and quiet	Combination of primary transformer, secondary switching regulator and additional linear control reduces weight and size, yet maintains robustness and low ripple.

▷ For more information,
see www.rohde-schwarz.com/product/nge100

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.) / Wi-Fi (opt.)	RS-232 / GPIB
Command processing time	< 10 ms	< 50 ms
Certifications	CE, TÜV, LXI	CE, TÜV, LXI

ROHDE&SCHWARZ

Wireless LAN option

WLAN

MAC Address	f8:f0:05:f1:56:e3
Module	Enabled
Status	Connected
SSID	iS@DAS_SPEKTRUM
Password	●●●●●●●●●●●●
Connect	**Disconnect**
IP Address	192 . 168 . 50 . 13
Subnet Mask	255 . 255 . 252 . 0
Gateway	192 . 168 . 48 . 1

Wireless LAN option allows easy access to the unit.

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

Parallel operation up to 9A
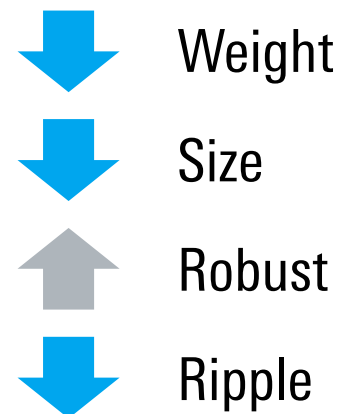
Serial operation up to 96V
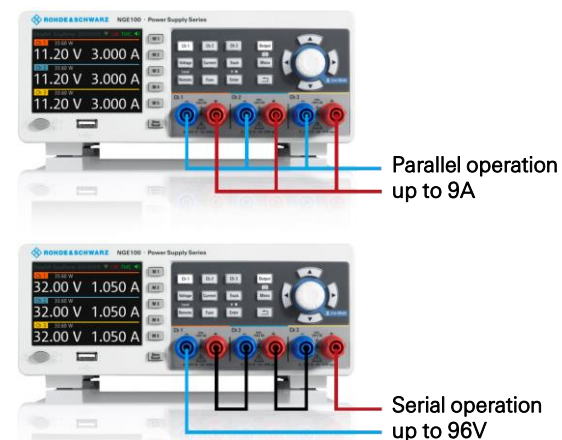
Running in parallel, higher currents can be achieved; serial connected channels yield higher voltages.

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

Weight

Size

Robust

Ripple

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