ROHDE&SCHWARZ
Make ideas real

# R&S®NGE100B
## versus BK9129B

### Key features

- ► 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 |
|---|---|
| Optimized load recovery time with minimal overshoot | ► Thanks to the optimized load recovery time of < 30 µs with minimal overshoot under challenging load conditions, the R&S®NGE100B instruments are perfect for testing IoT and other battery-powered devices that require very little current in sleep mode and abruptly increase current when switching to transmit mode |
| Display | ► The large capacitive touchscreen is the central element for operating the R&S®NGE100B power supply series<br>► Briefly tapping a numeric value displays a virtual keyboard to enter the desired value<br>► With its high resolution of 800 × 480 pixel, the display sets new standards for power supplies |
| Low ripple and noise | ► To supply interference-free voltage to sensitive components, such as complex semiconductors, and to support the development of power amplifiers and MMICs |
| Sink and source operation | ► The linear two-quadrant output amplifier design of the R&S®NGE100B series enables sink and source operation to simulate batteries and loads |
| 6 ½ digit resolution | ► With a resolution of up to 6 ½ digits for voltage, current and power measurement, the R&S®NGE100B series is ideal for characterization of devices with low standby power consumption and high peak currents |

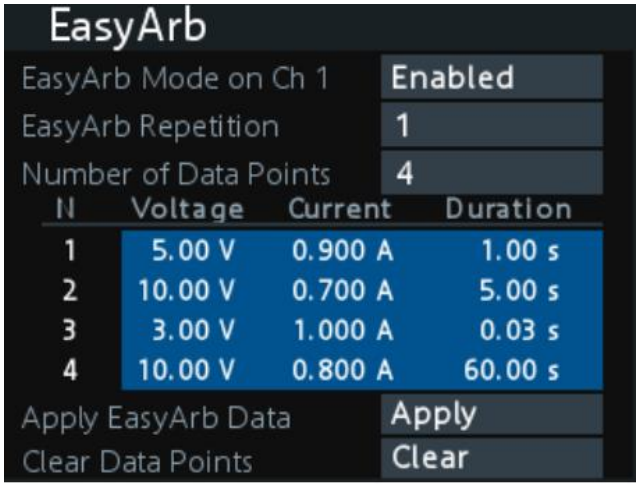
| Parameter | R&S®NGE100B | BK9129B |
|---|---|---|
| Number of channels | 2 or 3 | 3 |
| Output voltage per channel | 0 V to 32 V | 0 V to 30 V (channels 1 and 2)<br>0 V to 5 V (channel 3) |
| Maximum output power | 66 W/100 W | 195 W |
| Maximum output current per channel | 3 A | 3 A |
| Programming resolution | 10 mV/1 mA | 10 mV/1 mA |
| Voltage ripple and noise (20 Hz to 20 MHz) | < 1.5 mV (RMS) | < 1 mV (RMS) |
| Current ripple and noise (20 Hz to 20 MHz) | < 2 mA (RMS) | < 6 mA (RMS) |
| Arbitrary function | EasyArb | no |
| Ramp function | EasyRamp | no |
| Readback resolution | 10 mV/1 mA | 10 mV/1 mA |
| Protection functions | OCP/OVP/OTP | OVP/OTP |
| Remote control interfaces | standard: USB<br>optional: LAN | standard: USB |
| Command processing time | < 30 ms | < 90 ms |
| FuseLink | yes | no |
| Trigger function | yes | no |
| Display | TFT 3.5" QVGA | 14-character display per channel |
| Dimensions (W × H × D) | ½ 19", 2 HU | ½ 19", 2 HU |
| Weight | 5.0 kg | 7.3 kg |

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

## R&S®NGE100 arbitrary function

**EasyArb:**

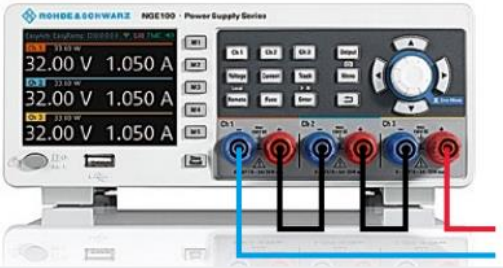
- This function allows the user to program time/voltage or time/current sequences
- It is also programmable via the external interfaces
- Up to 128 points possible with a step size of 10 ms




## R&S®NGE103B parallel and serial operation


**Parallel operation:**

- up to 9 A



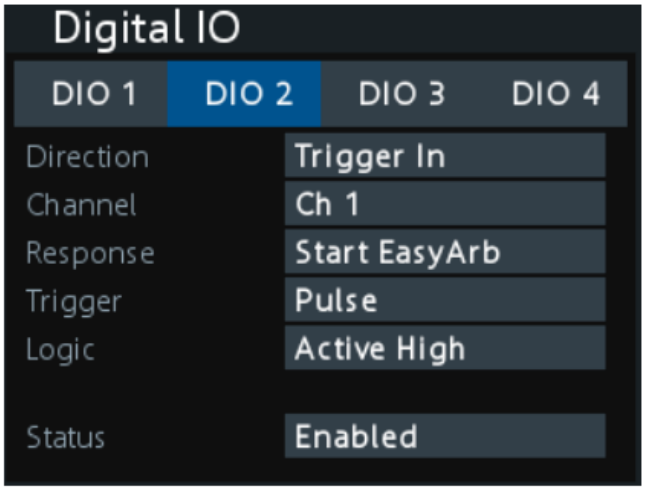

**Serial operation:**

- up to 96 A

## R&S®NGE100 digital trigger in/out (4-bit) option

**Digital I/O:**

- R&S®NGE100B power supplies come with an option of a set of digital inputs/outputs (4-bit), which are used independently as trigger inputs or outputs
- The hardware of the R&S®NGE-K103 option is already installed and the functionality can be activated via a keycode
- The digital I/O option simplifies integration for production




## Advantages of the R&S®NGE100B series over the BK9129B

**Protection**
OCP

**Ramp function**
EasyRamp

**2.3 kg**
Lighter

**FuseLink**

**LAN**
Interface

**Arbitrary function**
EasyArb

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