

R&S®NGT3600 DC POWER SUPPLY SERIES

versus Keysight N6974A



Power up your testing

The R&S®NGT3600 series delivers one or two fully independent 1800 W outputs in a compact instrument and is perfect for demanding test environments that need power, flexibility and precision.

The R&S®NGT3600 series is designed to handle everything from high-current motor drives to avionics systems with up to 80 V or 50 A per output, advanced autoranging architecture and smart features such as arbitrary, ramp and remote sensing.

A 4.3" touchscreen, built-in data logging and intuitive operation accelerate workflows and reduce setup errors. Whether in R&D labs or automated test systems, the R&S®NGT3600 gives you control and confidence to push your designs further.

Your benefit	Features
Power two DUTs with one instrument simultaneously	<ul style="list-style-type: none"> Up to two independent, floating outputs Both outputs galvanically isolated Space, cost and time efficient
Maximum power at various operating points	<ul style="list-style-type: none"> Autoranging and channel fusion Up to 100 A when connected in parallel Up to 160 V when connected in series
Flexibility for higher power demands	<ul style="list-style-type: none"> Multi-device mode Connect six channels in series or parallel for up to 480 V or 300 A

Parameter	R&S®NGT3621, R&S®NGT3622	Keysight N6974A
Maximum output power	1800 W/3600 W	2000 W
Number of outputs	1/2	1
Maximum voltage per output	80 V	80 V
Maximum current per output	50 A	25 A
Maximum power per output	1800 W	2000 W
Voltage ripple and noise	< 5 mV (RMS)	< 1 mV (RMS)
Readback resolution (voltage)	1 mV	2 mV
Readback resolution (current)	100 µA	1.5 mA
Readback accuracy (voltage)	0.03% + 6 mV	0.03% + 12 mV
Readback accuracy (current)	0.05% + 8 mA	0.1% + 8 mA
Load regulation	1.5 ms (10% to 90%; 200 mV settling band)	100 µs (50% to 100%; 300 mV settling band)
Logging	yes, 100 sample/s	external only
Display	4.3" high resolution touchscreen	small LCD display
Weight	13.5 kg/18.5 kg	15.5 kg
Dimension (W x H x D)	481 mm x 88 mm x 565 mm	426.9 mm x 88.1 mm x 633.2 mm



For options, prices and more information, visit
<https://www.rohde-schwarz.com/product/NGT3600>

Large high-resolution touch display versus small LCD display



R&S®NGT3600

The 4.3" high-resolution touch display on the R&S®NGT3600 power supplies makes operation easy. Quickly navigate through menus to access all functions and settings. Enter values much faster with the virtual keyboard instead of a knob. The home screen has a clear overview of all channels and each can be selected for a more detailed view with a wide variety of additional information, such as statistics and icons indicating the status of set protection or special functions.

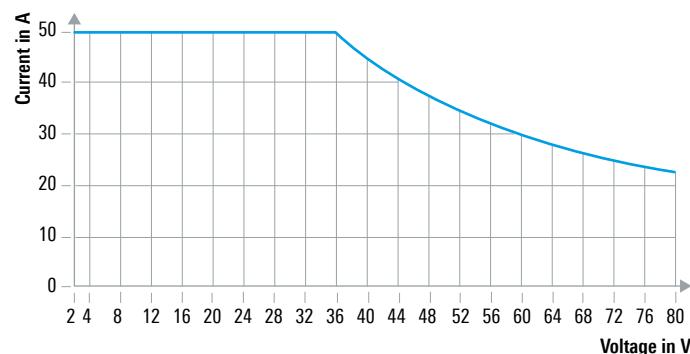
The Keysight N6974A power supplies only have a small LCD display.

[Keysight N6974A](#)

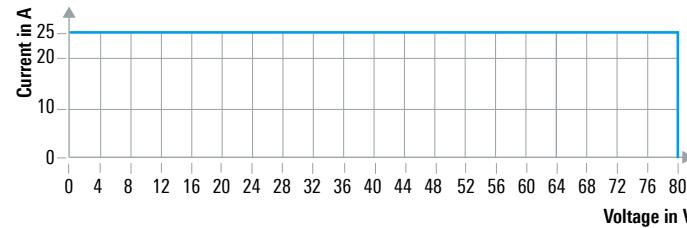
Buttons have to be used to set voltage and current.

Autoranging versus single range power supply

R&S®NGT3600



[Keysight N6974A](#)



More efficiency for your test setup: Two versus one output channels

Save costs, time and space on your bench or rack by letting you power two DUTs from one instrument. Each 1800 W output is completely independent and floating. 3600 W of total output power give the R&S®NGT3600 series almost double the power of a Keysight N6974A power supply. The R&S®NGT3600 series is much more space-efficient and, with a maximum 3600 W of total output power and two outputs, the R&S®NGT3600 series has much greater power density than the Keysight N6974A.



R&S®NGT3600



No rack adapter needed

Designed for seamless integration, the R&S®NGT3600 power supply series features direct rackmountability, allowing it to be installed effortlessly into any standard 19" rack with no additional brackets or adapters. The streamlined design saves time during setup and ensures a clean, professional installation.

The Keysight N6974A power supply requires the N7907A rackmount kit to be integrated into a rack.