

R&S®NGT3600 POWER SUPPLY SERIES

Power Up Your Testing



Target application

R & D	Manufacturing
Aerospace & Defense	Renewable Energies
Your benefit	Features
Power two DUTs with one instrument simultaneously	<ul style="list-style-type: none">Up to two independent, floating outputsBoth outputs galvanically isolatedSpace, cost and time efficient
Maximum power at various operating points	<ul style="list-style-type: none">Autoranging and channel fusionUp to 100 A when connected in parallelUp to 160 V when connected in series
Flexibility for higher power demands	<ul style="list-style-type: none">Multi-device modeConnect 6 channels in series or parallel for up to 480 V or 300 A

Model options

Model	Number of channels	Total output power	Max. Voltage per channel	Max. Current per channel	Output power per channel
R&S®NGT3621	1	max. 1800 W	80 V	50 A	1800 W
R&S®NGT3622	2	max. 3600 W	80 V	50 A	1800 W

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Competitive analysis¹⁾

Specification	R&S®NGT3621/22	Keysight N6972/73/74A	Why is this important
Max. output power	1800 W / 3600 W	2000 W	For power-hungry devices
Number of outputs	1 / 2	1	Power 2 DUTs simultaneously
Max. voltage per output	80 V	40 V / 60 V / 80 V	Increased usable power with Autoranging technology
Max. current per output	50 A	50 A / 33.3 A / 25 A	Meet high current consumption requirements
Max. power per output	1800 W	2000 W	Get the full 200 W on each output (no shared total power among channels)
Programming resolution	1 mV / 1 mA	1.5 mV / 2 mV / 2 mV	Accurately set your supply voltage and current
Readback resolution	100 µV / 100 µA	2 mV / 2 mA / 1.5 mA	Replaces a DMM in many applications
Acquisition rate	100 samples/s	External only	Great for in-depth post analysis
Display	4.3" high resolution touchscreen	small LCD display	Enter values much faster with an intuitive touch display

¹⁾Information based on market data as published by the manufacturer. Trade names are trademarks of the respective owners

Key features



Channel Fusion

For applications requiring higher voltage or current, the outputs of the R&S®NGT3622 can be connected in series or parallel to achieve up to 160 V or 100 A. In multi-device mode, you can connect six outputs across multiple instruments, enabling voltages up to 480 V and currents up to 300 A.



QuickArb

Emulate the normal behaviors of your power subsystems early in the design process and simulate power problems for DUT design verification. The Arbitrary function lets you generate voltages that vary over time and current sequences of output changes with dwell times down to 1 ms. Load up to eight subgroup files into one sequence to create complex patterns.



Data Logging

Logging data is key to long-term monitoring, reviewing test setups and repeating test conditions when analyzing power behaviors or optimizing power consumption. The R&S®NGP800 power supplies simultaneously log voltage and current measurements over time on all outputs. You can easily export the timestamped data as a .CSV file for reports and documentation.

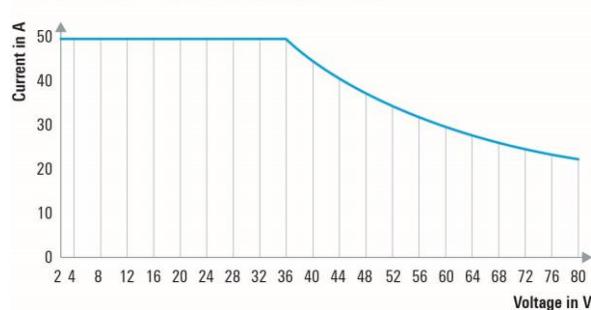


Ramp function

To control inrush currents, some test setups require the continuous rise of the supply voltage instead of a rapid jump.

Increase the output voltage continuously within a timeframe of 10 ms to 60 s with the Ramp function

Maximum power 1800 W (source mode)



Autoranging lets you get the most out of each channel by delivering up to 1800 W across a wide range of voltage and current combinations. Unlike traditional single-range supplies, Autoranging adapts to your load requirements, providing high current at low voltage levels or high voltage at low current levels, always maximizing available power.

Ordering information

Base unit	Item	Material number
One-channel power supply, 1800 W, 80 V/50 A	R&S®NGT3621	5602.4000.02
Two-channel power supply, 3600 W, 80 V/50 A	R&S®NGT3622	5602.4000.03

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