

## ***DC Power Supplies Generate Up To Four Independent Channels***

[Rohde & Schwarz's](#) R&S NGP800 power supply series includes two and four channel models, and further extends the functions and performance available for dc power for test and measurement. For any application requiring up to four independent dc power supplies with full flexibility, full functionality, full safety and full connectivity, the R&S NGP800 power supply series will boost the efficiency in any lab or production line. Users benefit from the large 5-in. high-resolution touch screen, which also displays detailed statistics. According to Wally Arceneaux, market segment manager for Rohde & Schwarz USA, the company had planned to launch this product series at APEC 2020.

The five R&S NGP800 models meet the needs of users seeking minimum device footprint for two or four independent power supplies, with maximum flexibility for voltages up to 250 V, currents up to 80 A and power up to 800 W (see the figure). Channels can be operated fully independently or synchronized; the electrically equivalent and galvanically isolated outputs can be wired in series for outputs up to 250 V or in parallel for up to 80 A.

The tracking function makes it possible for users to adjust voltage and current simultaneously on selected channels, with programmable output delays used to meet specific power-up sequences. The supplied voltage can be ramped up to the required level in any period from 10 ms to a minute. All outputs operate in either constant-voltage mode or constant-current mode.

To meet the requirement of both developers and quality assurance teams in particular, it is possible to set up changes in voltage and current level over time using the QuickArb function. This way, users can simulate unstable power supplies with the R&S NGP800. Using remote sensing, users can regulate the voltage directly at the input terminals of the powered device itself, instead of the power supply's output terminals, so that exactly the required voltage is supplied.

Moreover, the R&S NGP800 includes functions for logging voltage, current and power values over time for all outputs. Data logs can easily be exported as .CSV files for in-depth analysis or documentation needs. The settings for all channels and functions can also be stored and recalled at the touch of a button, and even exported as a file to other R&S NGP800 to duplicate the power setup.

To protect devices supplied with power, all R&S NGP800 power supplies include overcurrent protection, overvoltage protection and overpower protection. The R&S NGP800 also features both advanced remote capabilities and fast command processing times that fully meet the requirements of ATE systems or production lines. Optional digital I/O and analog input interfaces further extend the scope of applications.

The new R&S NGP800 power supply series is available now from Rohde & Schwarz and selected distributors. See the table below for a list of models in this series. For more information, see the R&S NGP800 Power supply series [page](#).



Figure. The five R&S NGP800 models meet the needs of users seeking minimum device footprint for two or four independent power supplies, with maximum flexibility for voltages up to 250 V, currents up to 80 A and power up to 800 W. Each channel supplies up to 200 W with a maximum of 20 A or 64 V, also covering 48-V automotive and industrial applications.

Table. Options and key specifications for the five R&S NGP800 power supply models.

Model name	Number of output channels	Max. output power (W)	Output voltage per channel (V)	Output current per channel (A)	Starting at
R&S NGP802	2	400	0 to 32	0 to 20	\$3,250
R&S NGP804	4	800	0 to 32	0 to 20	\$4,880
R&S NGP814	4	800	Ch. 1, Ch.2: 0 to 32 Ch. 3, Ch. 4: 0 to 64	Ch. 1, Ch.2: 0 to 20 Ch. 3, Ch. 4: 0 to 10	\$4,880
R&S NGP822	2	400	0 to 64	0 to 10	\$3,250
R&S NGP824	4	800	0 to 64	0 to 10	\$4,880