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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde and Schwarz NGSM32 DC Power Supply

Rohde & Schwarz NGSM32/10 Programmable DC Power Supply The R&S NGSM32/10 is a half 19 inch programmable DC power supply with arbitrary waveform sequencing for automotive electronics, mobile radio, and laboratory loads. Dual voltage ranges 0 to 18 V and 0 to 32 V, currents to 10 A continuous with 20 A short term and 30 A pulse class for surge loads (central locking, ABS, car hi fi). Excellent RF shielding and high resolution standby current measurement suit mobile phone current drain tests. Optional IEC/IEEE (B2) or RS 232 C (B1). The R&S NGSM32/10 is a half 19 inch programmable DC power supply with arbitrary waveform sequencing for automotive electronics, mobile radio, and laboratory loads. Dual voltage ranges 0 to 18 V and 0 to 32 V, currents to 10 A continuous with 20 A short term and 30 A pulse class for surge loads (central locking, ABS, car hi fi). Excellent RF shielding and high resolution standby current measurement suit mobile phone current drain tests. Optional IEC/IEEE (B2) or RS 232 C (B1). Car electronics production test including DIN 40839 startup curve simulation; mobile radio standby and talk current; car hi fi booster supply; mechanical engineering DC stimulus; simple arbitrary voltage generator at power supply current.



MODEL

Rohde & Schwarz NGSM32

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

NGSM32

LISTING

<https://aumictechlabs.com/products/ngsm32-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz NGSM32 is a programmable DC power supply engineered for automotive electronics, mobile radio, and car hi-fi testing. Dual-channel output with three selectable voltage ranges delivers precise voltage and current control, enabling simulation of transient operating conditions such as motor startup sequences. The unit excels at reproducing real-world supply variations and supports arbitrary waveform generation with stored device profiles for rapid test reconfiguration.

Technical Specifications

Output Ranges Voltage: 0–18 V, 0–32 V, or 0–60 V (selectable) Continuous current: 10 A (18 V and 32 V ranges), 5 A (60 V range) Pulse current: up to 30 A for 1 ms (surge applications) Short-term load current: up to 20 A (NGSM32/10) Regulation

Performance Voltage setting resolution: 10 mV or 20 mV (range-dependent) Deviation from full scale: <0.4% (0–18 V), <0.2% (0–32 V and 0–60 V) Stability with $\pm 10\%$ AC supply variation: <0.01% or <0.02%/°C Temperature stability (0°C to 45°C at 10–90% nominal current): <0.01% or <0.02%/°C Arbitrary Waveform Generator Up to 60 reference values per voltage range with automatic interpolation Dwell time programmable from 1 ms to 4 s per step Storage: six complete device setups per voltage range or 12 setups for short tests

Measurement Capabilities High-resolution current measurement with trend indication Peak current measurement for power loading prediction

Key Features Motor startup curve simulation (DIN 40839) for automotive transient testing RF-shielded design with insensitivity to external RF coupling High-precision standby current measurement for mobile radio applications Multiple stored profiles enable quick setup recall without reconfiguration

Typical Applications Automotive electronics: central locking, ABS systems, car radio voltage-drop testing Mobile radio: standby current characterization with RF immunity Car hi-fi amplifier supply (high pulse current capability)

Compatibility & Integration Designed for production-line integration with DUT protection mechanisms and programmable setup storage for high-volume test automation.

NGSM32 Characteristics / Specifications

PARAMETER	VALUE
Arbitrary generator	up to 60 reference values per voltage range with dwell 1 ms to 4 s and interpolation DIN 40839 motor startup curve, reprogrammable to factory standards RF shielded output for DUT or nearby antenna environments Twelve stored device setups; output ON/OFF key protects the DUT
Model	NGSM32/10
Manufacturer	Rohde & Schwarz
Instrument Type	Programmable DC Power Supply with Arbitrary Function
Alias	R&S NGSM32; NGSM 32/10; 192.0810.31
Voltage Ranges	0 V to 18 V and 0 V to 32 V
Voltage Setting Resolution	10 mV
Current Ranges Continuous	0 A to 10 A (32 V range) and 0 A to 20 A (18 V range class)
Current Setting Resolution 0 to 9.99 A	10 mA
Current Setting Resolution 10 A to 20 A	100 mA
Short Term Load Current	20 A (car hi fi)
Pulse Current Class	30 A (surge loads)
Rated Power	180 W class (320 W marketing listings for 32 V x 10 A)
Voltage Ripple Vrms	1 mV
Current Ripple Irms	20 mA
Transient Recovery After Load Step	0.1 ms
Voltage Measurement Range	0 A to 40 V display span (0 to 40 V)
Voltage Measurement Resolution	10 mV
Measurement Rate	6 per second
Current Measurement mA Range	0 mA to 199 mA
Current Resolution 0 to 9.99 mA	0.1 mA
Current Resolution 100 to 199 mA	1 mA
Current MeasurementARange	0 A to 40 A

PARAMETER	VALUE
Current Resolution 0 to 9.99 A	10 mA
Current Resolution 10 to 40 A	100 mA
Arbitrary Points Per Range	60
Arbitrary Dwell	1 ms to 4 s
Stored Setups	12
Form Factor	half 19 inch width
Remote Options	NGSM B1 RS 232 C; NGSM B2 IEEE 488
Rack Adapter	19 inch, 3 HU, 2.8 kg class
Family Sibling	NGSM60/5 32/60 V and 10/5 A (192.0810.61)
Outputs	floating, short circuit proof CV/CC
Sensing	remote sensing (RS) on this series
Cooling	thermostat controlled fan Notes Specs from R&S NGSM32/10 product documentation and the programmable power supply catalog (192.0810.31). Confirm B1 versus B2 interface and whether the 18 V/20 A or 32 V/10 A range is in use. Do not confuse with NGSM60/5 or with later NGM/NGP families.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Current Setting Resolution 0 to 9.99 A	10 mA
Current Setting Resolution 10 A to 20 A: 100 mA	
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PARAMETER	VALUE
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Transient Recovery After Load Step	0.1 ms
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Measurement Rate	6 per second
Current Measurement mA Range	0 mA to 199 mA
Current Resolution 0 to 9.99 mA	0.1 mA
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Current Resolution 0 to 9.99 A	10 mA

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Notes

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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
30-day returns
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.