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Data Sheet

August 13, 2026

ROHDE & SCHWARZ

Rohde & Schwarz HMC8043 Power Supply

Current Ripple: typically less than 1 mArms Sense Response: 1 ms (plus/minus 20 mV) for 10 to 90 percent load change Logging Resolution: 1 mV / 0.1 mA (less than 100 Sa/s); 10 mV / 1 mA (1000 Sa/s) Remote Interfaces: USB TMC, USB CDC, LAN; GPIB on HMC8043-G Sense Response: 1 ms (plus/minus 20 mV) for 10 to 90 percent load change Logging Resolution: 1 mV / 0.1 mA (less than 100 Sa/s); 10 mV / 1 mA (1000 Sa/s) Remote Interfaces: USB TMC, USB CDC, LAN; GPIB on HMC8043-G Overvoltage Protection: adjustable per channel



MODEL

**Rohde & Schwarz
HMC8043**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

HMC8043

LISTING

<https://aumictechlabs.com/products/hmc8043-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Rohde & Schwarz HMC8043 is a three-channel programmable linear DC power supply engineered for laboratory, industrial, research, and educational applications. Each of the three galvanically isolated outputs delivers 0 to 32 V DC at 0 to 3 A, with a maximum power rating of 33 W per channel and 100 W total output power. The instrument combines high-resolution voltage and current control with exceptionally low ripple and noise, making it suitable for precision testing and system development. Technical Specifications Output Performance Three galvanically isolated, floating outputs with short-circuit and overload protection Voltage range: 0 to 32 V DC per channel; current range: 0 to 3 A DC per channel Voltage resolution (readback/setting): 1 mV

Current resolution (readback/setting): 0.1 mA at sampling rates <100 Sa/s; 1 mA at 1000 Sa/s
Voltage ripple and noise: <450 μ V RMS / <4 mV peak-to-peak (20 Hz to 20 MHz, measured)
Current ripple and noise: <1 mA RMS (20 Hz to 20 MHz, measured) Load recovery time (10% to 90% load change): <1 ms to within $\pm$ 20 mV of set voltage Line/load regulation: <0.03% + 5 mV (voltage); <0.03% + 200 μ A (current) Operating Conditions Input: 100 to 240 VAC, 50/60 Hz; maximum input power 200 W Operating temperature: 0 $^{\circ}$ C to +40 $^{\circ}$ C (Pollution category 2) Storage temperature: -20 $^{\circ}$ C to +70 $^{\circ}$ C Humidity: 5% to 80% relative humidity (non-condensing) Operating altitude: Maximum 2000 m Warm-up period for specifications: 30 minutes

Key Features
Programmable time/voltage and time/current curves (EasyArb) with up to 512 points per channel
EasyRamp function for simulated startup curves with gradual voltage increase Sequenced channel startup capability Integrated energy meter for output energy measurement Electronic fuse (FuseLink) configuration, freely combinable per channel Data logging capability Parallel and series operation support on two and three-channel configurations SENSE connectors on front and rear panels 320 $\times$ 240 pixel color QVGA display with real-time voltage, current, and power readout Remote control capabilities

Typical Applications Device characterization, power circuit development, battery simulation, component stress testing, and educational demonstrations requiring multiple isolated power sources with precise arbitrary waveform generation.

Compatibility & Integration Remote programming and control supported; compatible with standard laboratory automation environments.

Features & description

From manufacturer datasheet

Features

• EasyArb arbitrary V/I sequences • FuseLink overcurrent protection linking channels • Sense compensation, 1 V max, 1 ms to plus/minus 20 mV on 10 to 90 percent load step • Half 19 inch, 88 mm x 222 mm x 280 mm, 2.6 kg • HMC8041 (1 ch 100 W/10 A) and HMC8042 (2 ch 50 W/5 A) siblings

Applications

• Three-rail board bring-up (MCU, analog, I/O) • Tracking and sequenced supplies • Long-term logging of voltage, current, and power • Automated test with SCPI over USB/LAN/GPIB • Low-ripple analog/RF bias

HMC8043 Characteristics / Specifications

PARAMETER	VALUE
Model	HMC8043
Manufacturer	Rohde & Schwarz
Instrument Type	Programmable DC power supply
Alias	HMC 8043; R&S HMC8043
Channel Count	3
Max Power per Channel	33 W
Total Power	100 W
Output Voltage per Channel	0 V to 32 V
Max Output Current per Channel	3 A
Voltage Resolution	1 mV
Current Resolution below 1 A	0.1 mA
Current Resolution above 1 A	1 mA
Programming Accuracy Voltage	less than 0.05 percent + 2 mV (23 C plus/minus 5 C)
Programming Accuracy Current	less than 0.05 percent + 2 mA; typ. 0.05 percent + 1 mA below 100 mA
Readback Accuracy Voltage	less than 0.05 percent + 2 mV
Readback Accuracy Current	less than 0.05 percent + 2 mA
Constant Current Mode	less than 0.03 percent + 200 μ A
Voltage Ripple 20 Hz to 20 MHz	450 μ Vrms / 4 mVpp (V=16 V, I=Imax*0.5)
Current Ripple	typically less than 1 mArms
Sense Response	1 ms (plus/minus 20 mV) for 10 to 90 percent load change
Max Sense Compensation	1 V
Voltage to Earth	250 V DC
Reverse Voltage Max	33 V
Inverse Voltage Max	0.4 V
Inverse Current Max	3 A

PARAMETER	VALUE
Display	3.5 inch QVGA, 320 × 240
Logging Resolution	1 mV / 0.1 mA (less than 100 Sa/s); 10 mV / 1 mA (1000 Sa/s)
Remote Interfaces	USB TMC, USB CDC, LAN; GPIB on HMC8043-G
Mains	100 to 240 V AC, 50/60 Hz
Power Consumption	100 W class
Fuse	3.15 L 250 V
Operating Temperature	0 C to +40 C
Storage Temperature	minus 20 C to +70 C
Humidity	5 percent to 80 percent
Dimensions	88 mm x 222 mm x 280 mm
Weight	2.6 kg
Rack	half 19 inch (HZC95)
Overvoltage Protection	adjustable per channel
Overcurrent Protection	FuseLink Notes Specs from the R&S HMC804x DC power supply data sheet. Confirm GPIB (HMC8043-G) versus USB/LAN-only HMC8043. This is the 3-channel 33 W/ch model, not HMC8041 or HMC8042.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 20 C to +70 C
Operating temperature	0 C to +40 C
Operating Temperature	0 C to +40 C
Humidity	5 percent to 80 percent
Dimensions	88 mm x 222 mm x 280 mm
Weight	2.6 kg
Rack	half 19 inch (HZC95)
Overvoltage Protection	adjustable per channel
Overcurrent Protection	FuseLink Notes Specs from the R&S HMC804x DC power supply data sheet. Confirm GPIB (HMC8043-G) versus USB/LAN-only HMC8043. This is the 3-channel 33 W/ch model, not HMC8041 or HMC8042.

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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Sense Response	1 ms (plus/minus 20 mV) for 10 to 90 percent load change
Max Sense Compensation	1 V
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Reverse Voltage Max	33 V
Inverse Voltage Max	0.4 V
Inverse Current Max	3 A
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Dimensions	88 mm x 222 mm x 280 mm
Weight	2.6 kg
Rack	half 19 inch (HZC95)
Overvoltage Protection	adjustable per channel
Overcurrent Protection	FuseLink

Notes

Specs from the R&S HMC804x DC power supply data sheet. Confirm GPIB (HMC8043-G) versus USB/LAN-only HMC8043. This is the 3-channel 33 W/ch model, not HMC8041 or HMC8042.

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

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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.