

R&S® HMC804x Power Supply

Compact and easy to use



The perfect choice for

Engineering lab

Production testing

Education

Maintenance & repair

Key features

One, two or three channels – the R&S®HMC804x power supplies with their specifications and wide range of functions are ideal for use in development labs and industrial environments. Thanks to their high energy efficiency, the linear power supplies remain cool and quiet, even at maximum load. Practical interfaces and connectors allow users to work quickly and conveniently with the R&S®HMC804x. Convenient functions enable the instruments to be used in special applications.

Key specifications	R&S® HMC8041	R&S® HMC8042	R&S® HMC8043
Number of channels	1	2	3
Max. power per channel	100 W	50 W	33 W
Total power output	100 W		
Output voltage per channel	0 V to 32 V		
Max. output current per channel	10 A	5 A	3 A
Resolution	1 mV/1 mA		
Overvoltage protection	adjustable per channel		
Overcurrent protection	FuseLink technology		
Arbitrary V/I curves	EasyArb function		

Your benefit	Features
Clear display of all measured parameters	The brilliant color display shows voltage current and power values in real time
Flexible channel configurations for up to 90 volts	All channels are galvanically isolated and can be combined to drive balanced circuitries or for higher voltages/currents
Flexible overcurrent protection	<ul style="list-style-type: none"> FuseLink allows you to freely combine the electronic fuses in each channel A fuse delay can be set to prevent too early switch-off due to a short current spike
Programmable time/voltage or time/current sequences	Arbitrary waveforms can be generated for voltage and current. Function can be configured and executed via control panel or external interface
EasyRamp function	After switching on, voltage will increase practically linear to the set value

► For more information, see www.rohde-schwarz.com/product/HMC804x

Ideal for industrial environments



Power supply units in industrial production are often found in 19" racks. All R&S®HMC804x models can be integrated into 19" racks with the R&S®HZC95 rackmounting kits.

WAGO cage clamp



To facilitate typical calibration setups, the rear panel connector was designed with a WAGO cage clamp.

Ordering information

Base units			
Model	Channel	Power	GPIB
R&S®HMC8041	1	100 W (max. 10 A)	No
R&S®HMC8041-G	1		Yes
R&S®HMC8042	2	100 W (50 W/channel, max. 5 A)	No
R&S®HMC8042-G	2		Yes
R&S®HMC8043	3	100 W (33 W/channel, max. 3 A)	No
R&S®HMC8043-G	3		Yes

System component

Description	Type
19" rackmount kit, 2 HU	R&S®HZC95

Included accessories:

All models include operating manual, power cable and three-year warranty.

Electronic fuses, overvoltage protection

Overcurrent/overvoltage protection can be set for each channel individually. The electronic fuses can be linked to other channels. In this case, all linked channels will be switched off as soon as one reaches a limit. Even the delay time can be set to prevent premature switch-off due to short current spikes.

EasyArb

EasyArb is the time/current flow or time/voltage curve that is freely programmable by channel, with up to 512 points. Programming is possible via remote software or directly on the instrument.

EasyRamp function

Sometimes test sequences should avoid the abrupt rise of the supply voltage. The EasyRamp function allows users to simulate a startup curve. After the channels are switched on, the increase in output voltage will be practically linear to the set voltage value within a defined time span.

Sequencing function

The R&S®HMC804x power supply includes a sequencing function that can be adjusted via a menu. Sequencing enables you to automatically and consecutively connect available channels to the device under test, with adjustable time offsets when the MASTER ON/OFF key is activated.

Rohde & Schwarz Representative

Rohde & Schwarz GmbH & Co. KG

Europe, Africa, Middle East | +49 89 4129 12345
 North America | 1 888 TEST RSA (1 888 837 87 72)
 Latin America | +1 410 910 79 88
 Asia Pacific | +65 65 13 04 88
 China | +86 800 810 82 28 | +86 400 650 58 96
 www.rohde-schwarz.com
 customersupport@rohde-schwarz.com

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