R&S[®]HM8143 Power Supply

Flexible solution for special applications



The perfect choice for	
Engineering lab	Production testing
Simulation of battery charging process	Maintenance & repair

Key specifications	
Total power output	130 W
Number of outputs	3
Voltage output CH1, CH3	0 V to 30 V
Voltage output CH2	5 V
Current output per channel	max. 2 A
Current sinking CH1, CH3	max. 2 A
Modulation input (CH1, CH3)	DC to 20 kHz bandwidth

Key features

The R&S°HM8143 power supply is the perfect choice whenever two-quadrant operation is needed. Besides the source functionality, it also provides electronic loads to accurately sink current and dissipate power in a controlled manner, for example to emulate the characteristics of a battery being charged or unloaded.

The R&S°HM8143 offers two channels with up to 30 V source and sink functionality plus one source channel with 5 V. Electronic fuse and modulation inputs are additional features.

Your benefit	Features	
Two channels with source/sink functionality	Two-quadrant functionality can be used to source or sink current, e.g. to emulate any charging/unloading application	
Additional 5 V source channel	Can be used to supply often used 5 V circuitries without needing another instrument	
Electronic fuse	Overcurrent protection can be set to switch off all channels in case the configured current limit is overdriven	
Modulation inputs	Via external modulation signals, the R&S*HM8143 can be used as a power amplifier, for example to supply AC motors	
	sst & Measurement Fact Sheet 01.00	

▶ For more information,

see www.rohde-schwarz.com/product/HM8143



88.S[®]HM8143

Parallel & serial operating mode

In the parallel operating mode, channels can be bundled to achieve higher currents. In the serial operating mode, channels can be combined for higher output voltages.

Modulation inputs

The R&S[®]HM8143 provides two modulation inputs on the rear, so it can be used as a power amplifier with a frequency range from DC to 50 kHz. Applications include testing of AC motors, relays, etc.

Electronic fuse

In order to provide even better protection than current limiting, the R&S[®]HM8143 offers the feature of an electronic fuse. As soon as the current limit is reached, all outputs are simultaneously disabled.

Arbitrary function

The arbitrary mode can be used to generate a time/voltage flow. A table comprising up to 1024 voltage and time values can be defined using external software tools.

Ordering information

Model configuration information		
Description	Model	
Two-quadrant power supply	R&S°HM8143	

System component		
Description	Туре	
19" rackmount kit, 2 HU	R&S°HZ42	

Included accessories:

The R&S°HM8143 includes operating manual, power cable and three-year warranty.



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 R&S° is a registered trademark of Rohde & Schwarz GmbH & Co. KG PD 5215.3556.32 | Version 01.00 | July 2017 (ks) Trade names are trademarks of the owners R&S°HM8143 Power Supply Data without tolerance limits is not binding | Subject to change © 2017 Rohde & Schwarz GmbH & Co. KG | 81671 Munich, Germany