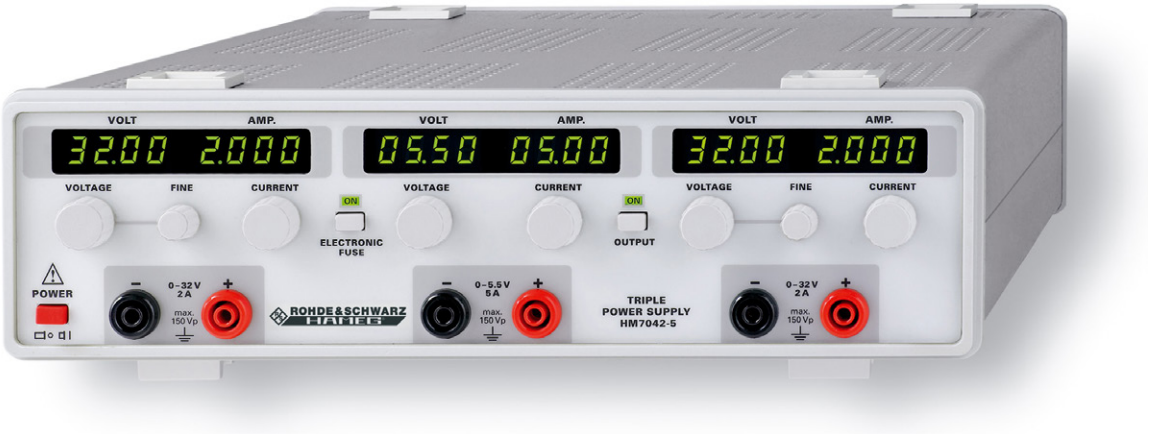
HM7042-5
Triple Power Supply
Technical Data

HAMEG® Instruments
A Rohde&Schwarz Company



Key facts

- 2 x 0…32V/0…2A 1 x 0…5.5V/0…5A
- High-performance and inexpensive laboratory power supply
- Floating, overload and short-circuit proof outputs
- Separate voltage and current displays for each output
  4 digits at channel 1+3; 3 digits at channel 2
- Display resolution:
  10mV/1mA at channel 1+3; 10mV/10mA at channel 2
- Protection of sensitive loads by current limit or electronic fuse
- Pushbutton to activate/deactivate all outputs
- Low residual ripple, high output power, excellent regulation
- Parallel (up to 9A) and series (up to 69.5V) operation
- Temperature-controlled fan

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Test & Measurement

Technical Data

PD 5210.8608.32 - 01.00

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All data valid at 23°C after 30 minutes warm-up.

Outputs	
2 x 0…32V/2A and 0..5,5V/5A	ON/OFF pushbutton control, SMPS followed by a linear regulator, floating outputs for parallel/serial operation, current limit and electronic fuse
Output 1+3 (32V)	
Range:	2 x 0…32V, continuously adjustable 2 knobs (coarse/fine)
Ripple:	≤100µV$_{rms}$ (3Hz…300kHz)
Current:	max. 2A
Current limit/electronic fuse:	0…2A, continuously adjustable (knob)
Recovery time (10…90% load variation):	80µs within ±1mV of nominal value 30µs within ±10mV of nominal value 0µs within ±100mV of nominal value
Max. transient deviation:	typ. 75mV
Recovery time (50% basic load, 10% load variation):	30µs within ±1mV of nominal value 5µs within ±10mV of nominal value 0µs within ±100mV of nominal value
Max. transient deviation:	typ. 17mV
Display:	
7-Segment LED:	32,00V (4 Digit)/2,000A (4 Digit)
Resolution:	0,01V/1mA
Display accuracy:	±3 digit voltage/±4digit current
LED:	indicates current limit
Ausgang 2 (5,5V)	
Range:	0…5.5V, continuously adjustable (knobs)
Ripple:	≤100µVrms (3Hz…300kHz)
Current:	max. 5A
Current limit/electronic fuse:	0…5A, continuously adjustable (knob)
Recovery time (10…90% load variation):	80µs within ±1mV of nominal value 10µs within ±100mV of nominal value
Max. transient deviation:	typ. 170mV
Recovery time (50% basic load, 10% load variation):	30µs within ±1mV of nominal value 15µs within ±10mV of nominal value 0µs within ±100mV of nominal valuee
Max. transient deviation:	typ. 60mV
Display:	
7-Segment LED	5,50V (3 Digit)/5,00A (3 Digit)
Resolution:	0,01V/10 mA
Display accuracy:	±3digit voltage/±1digit current
LED	indicates current limit
Maximum ratings	
Max. voltage applicable to output terminals:	
CH 1 + CH 3	33V
CH 2	6V
Reverse voltage:	max. 0,4V
Reverse current:	max. 5A
Voltage to earth:	max. 150V

Miscellaneous	
Safety class:	Safety class I (EN61010-1)
Mains supply:	115V/230V ±10%; 50…60Hz, CAT II
Mains Fuse:	115V: 2 x 5A; slow blow 5 x 20mm 230V: 2 x 2,5A; slow blow 5 x 20mm
Power consumption:	max. 330VA/250W
Operating temperature:	+5…+40°C
Storage temperature:	-20…+70°C
Rel. humidity:	5…80% (non condensing)
Dimensions (W x H x D):	285 x 75 x 365mm
Weight:	approx. 7,4kg

Accessories supplied:
Operating manual, line cord, CD

Recommended accessories:
HZ10S 5 x silicone test lead (measurement connection in black)
HZ10R 5 x silicone test lead (measurement connection in red)
HZ10B 5 x silicone test lead (measurement connection in blue)
HZ42 19" Rackmount Kit 2RU