

Трехканальный источник питания HM7042-5



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Technical Data

Triple Power Supply

HM7042-5

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
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Output 1+3 (32V)

Range:	2 x 0...32V, continuously adjustable 2 knobs (coarse/fine)
Ripple:	≤100µVEff (3Hz...300kHz) typ., ≤1mV (10Hz...1MHz)
Current:	max. 2A
Current limit/electronic fuse:	0...2A, continuously adjustable (knob)
Recovery time (10...90% load variation):	80µs within ±1 mV 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 ±1 mV of nominal value 5µs within ±10mV of nominal value 0µs within ±100mV of nominal value
Max. transient deviation:	typ. 17 mV
Display:	
7-Segment LED:	32,00V (4 Digit)/2,000A (4 Digit)
Resolution:	0,01V/1 mA
Display accuracy:	±3 digit voltage/±4 digit current
LED:	indicates current limit

Output 2 (5,5V)

Range:	0...5.5V, continuously adjustable (knobs)
Ripple:	≤100µVEff (3Hz...300kHz) typ., ≤1mV (10Hz...1MHz)
Current:	max. 5A
Current limit/electronic fuse:	0...5A, continuously adjustable (knob)
Recovery time (10...90% load variation):	80µs within ±1 mV of nominal value 10µs within ±100mV of nominal value
Max. transient deviation:	typ. 170mV
Recovery time (50% basic load, 10% load variation):	30µs within ±1 mV of nominal value 15µs within ±10mV of nominal value 0µs within ±100mV of nominal value
Max. transient deviation:	typ. 60mV
Display:	
7-Segment LED	5,50V (3 Digit)/5,00A (3 Digit)
Resolution:	0,01V/10 mA
Display accuracy:	±3 digit voltage/±1 digit 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. 7,4 kg

Accessories supplied:

Operating manual, line cord

Recommended accessories:

HZ10S 5 x silicone test lead (black)
HZ10R 5 x silicone test lead (red)
HZ10B 5 x silicone test lead (blue)
HZ42 19" Rackmount Kit 2RU

Key specifications	
Total power output	155.5 W
Number of outputs	3
Voltage output CH1, CH3	0 V to 32 V
Voltage output CH2	0 V to 5.5 V
Current output CH1, CH3	0 A to 2 A
Current output CH2	0 A to 5 A
Display resolution CH1, CH3	10 mV/1 mA
Display resolution CH2	10 mV/10 mA

Your benefit	Features
Straightforward operation	All functions can be operated from the front panel; separate rotary knobs for each channel to adjust voltage and current
The separate output channels can work like individual power supplies	All channels are galvanically separated and can be combined for higher voltage or current
Small, compact and quiet	Combination of primary transformer, secondary switching regulator and additional linear control reduces weight and size

Parallel & serial operating mode

Because all channels are galvanically separated, they can be combined.

- 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

Ordering information

Model configuration information

Description	Model
Triple power supply	R&S®HM7042-5

System component

Description	Type
19" rackmount kit, 2 HU	R&S®HZ42

Included accessories:

The R&S®HM7042-5 includes operating manual, power cable and three-year warranty.



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