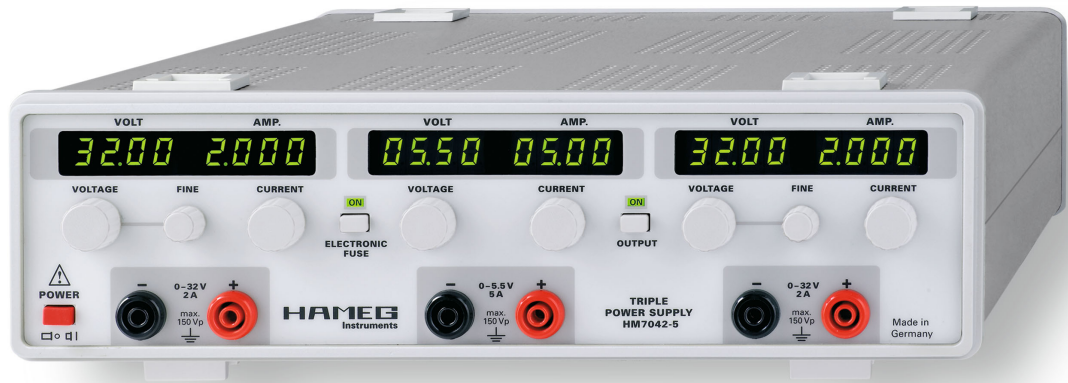


Triple Power Supply HM7042-5



HM7042-5

- ☑ 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 for activating/deactivating all outputs
- ☑ Low residual ripple, high output power, very good regulation
- ☑ Parallel (up to 9A) and Series (up to 69.5V) operation
- ☑ Temperature-controlled fan

HZ42 19" Rackmount kit 2RU



Silicone test cable HZ10S



Triple Power Supply HM7042-5

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

Outputs

2 x 0...32V and 0...5.5V ON/OFF pushbutton control, SMPS followed by a linear regulator, floating outputs for parallel/serial operation, current limit and electronic fuse.

Channel 1 + 3 (32 V)

Range: 2 x 0...32V, continuously adjustable
2 knobs (coarse/fine)

Ripple: $\leq 100 \mu\text{V}_{\text{rms}}$ (3 Hz...300 kHz)

Current: max. 2 A

Current limit/electronic fuse: 0...2 A, continuously adjustable (knob)

Recovery time (10...90 % load variation):
80 μs within ± 1 mV of nominal value
30 μs within ± 10 mV of nominal value
0 μs within ± 100 mV of nominal value

Max. transient deviation: typ. 75 mV

Recovery time (50 % basic load, 10 % load variation):
30 μs within ± 1 mV of nominal value
5 μs within ± 10 mV of nominal value
0 μs within ± 100 mV of nominal value

Max. transient deviation: typ. 17 mV

Display

7-segment LED: 32.00 V (4 digit) / 2.000 A (4 digit)

Resolution: 0.01 V / 1 mA

Display accuracy: ± 3 digit voltage / ± 4 digit current

LED: indicates current limit

Channel 2 (5.5 V)

Range: 0...5.5V, continuously adjustable (knobs)

Ripple: $\leq 100 \mu\text{V}_{\text{rms}}$ (3 Hz...300 kHz)

Current: max. 5 A

Current limit / electronic fuse: 0...5 A, continuously adjustable (knob)

Recovery time (10...90 % load variation):
80 μs within ± 1 mV of nominal value
10 μs within ± 100 mV of nominal value

Max. transient deviation: typ. 170 mV

Recovery time (50 % basic load, 10 % load variation):
30 μs within ± 1 mV of nominal value
15 μs within ± 10 mV of nominal value
0 μs within ± 100 mV of nominal value

Max. transient deviation: typ. 60 mV

Display

7-segment LED: 5.50 V (3 digit) / 5.00 A (3 digit)

Resolution: 0.01 V / 10 mA

Display accuracy: ± 3 digit voltage / ± 1 digit current

LED: indicates current limit

Maximum ratings

Max. voltage applicable to output terminals (ON/OFF):

CH 1 + CH 3:	33 V
CH 2:	6 V
Reverse voltage:	max. 0.4 V
Reverse current:	max. 5 A
Voltage to earth:	max. 150 V

Miscellaneous

Safety class:	Safety class I (EN61010-1)
Mains supply:	115 V...230 V $\pm 10\%$; 50/60 Hz, CAT II
Mains Fuse:	115 V: 2 x 5 A slow blow 5 x 20 mm 230 V: 2 x 2.5 A slow blow 5 x 20 mm
Power consumption:	max. 330 VA / 250 W
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 365 mm
Weight:	approx. 7.4 kg

Accessories supplied: Operator's Manual and power cable

Optional accessories:

HZ10S/R/B	Silicone test lead
HZ42	19" Rackmount Kit 2RU

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