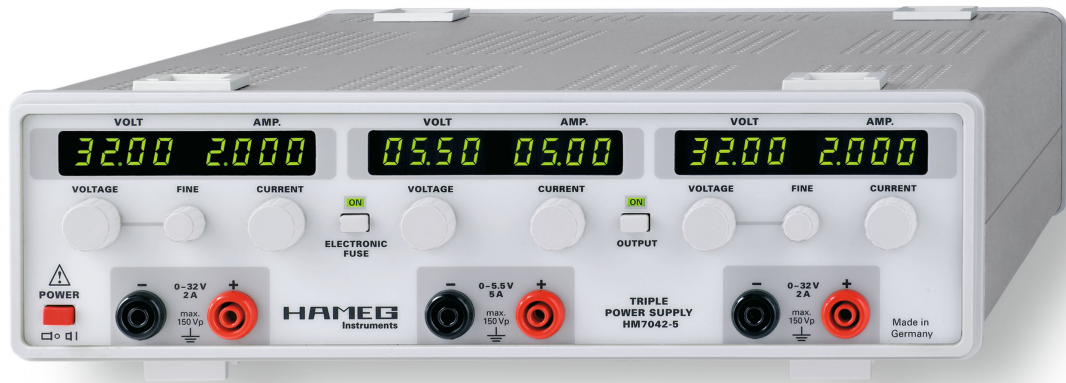


## Triple Power Supply HM7042-5



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...2A, continuously adjustable (knob)

**Recovery time (10 %...90 % load variation)**  
80  $\mu\text{s}$  within  $\pm 1$  mV of nominal value  
30  $\mu\text{s}$  within  $\pm 10$  mV of nominal value  
0  $\mu\text{s}$  within  $\pm 100$  mV of nominal value

**Max. transient deviation:** typ. 75 mV

**Recovery time (50 % basic load, 10 % load variation)**  
30  $\mu\text{s}$  within  $\pm 1$  mV of nominal value  
5  $\mu\text{s}$  within  $\pm 10$  mV of nominal value  
0  $\mu\text{s}$  within  $\pm 100$  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:**  $\pm 3$  digit voltage /  $\pm 4$  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...5A, continuously adjustable (knob)

**Recovery time (10 %...90 % load variation):**  
80  $\mu\text{s}$  within  $\pm 1$  mV of nominal value  
10  $\mu\text{s}$  within  $\pm 100$  mV of nominal value

**Max. transient deviation:** typ. 170 mV

**Recovery time (50 % basic load, 10 % load variation):**  
30  $\mu\text{s}$  within  $\pm 1$  mV of nominal value  
15  $\mu\text{s}$  within  $\pm 10$  mV of nominal value  
0  $\mu\text{s}$  within  $\pm 100$  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:**  $\pm 3$  digit voltage /  $\pm 1$  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
<b>Reverse voltage:</b>	max. 0.4 V
<b>Reverse current:</b>	max. 5 A
<b>Voltage to earth:</b>	max. 150 V

### Miscellaneous

<b>Safety class:</b>	Safety class I (EN61010-1)
<b>Mains supply:</b>	115 V...230 V $\pm 10\%$ ; 50/60 Hz, CAT II
<b>Mains Fuse:</b>	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
<b>Power consumption:</b>	max. 330 VA/250 W
<b>Operating temperature:</b>	+5 °C...+40 °C
<b>Storage temperature:</b>	-20 °C...+70 °C
<b>Rel. humidity:</b>	5%...80% (non condensing)
<b>Dimensions (W x H x D):</b>	285 x 75 x 365 mm
<b>Weight:</b>	approx. 7.4 kg

**Accessories supplied:** Operator's Manual and power cable  
**Optional accessories:** HZ10S/R Silicone test lead  
HZ42 19" Rackmount Kit 2RU

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