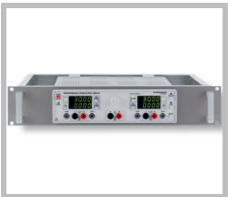


## Triple Power Supply HM7042-5



HM7042-5

HZ42 19" Rackmount kit 2RU



Silicone test cable HZ10



2x 0-32 V/0-2 A      1x 0-5,5 V/0-5 A

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 I+III; 3 digits at Channel II

Display resolution:  
10 mV/1 mA at Channel I+III; 10 mV/10 mA at Channel II

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 9 A) and Series (up to 69.5 V) operation

Temperature-controlled fan

## Triple Power Supply HM7042-5

Valid at 23 °C after a 30 minute warm-up period

### 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 I + III (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 $\mu\text{s}$ within $\pm 1$ mV of nominal value
	30 $\mu\text{s}$ within $\pm 10$ mV of nominal value
	00 $\mu\text{s}$ 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
	05 $\mu\text{s}$ within $\pm 10$ mV of nominal value
	00 $\mu\text{s}$ 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 II (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 $\mu\text{s}$ 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
	00 $\mu\text{s}$ 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 I + CH III: 33 V  
CH II: 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

**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:** 0 °C to +40 °C

**Storage temperature:** -20 °C to +70 °C

**Max. relative humidity:** < 80% (without condensation)

**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 Silicone test lead  
HZ42 19" Rackmount Kit 2RU

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