

## Triple Power Supply HM7042-5



2x 0-32V/0-2A      0-5.5V/0-5A

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

Adjustable current limiting and electronic fuse for each output

Pushbutton for activating/deactivating all outputs

Low residual ripple, high output power, very good regulation

Temperature-controlled fan

Silicone test cable HZ10



## 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. 2A

**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

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:** 32.00V (4 digit) / 2.000A (4 digit)

**Resolution:** 0.01V / 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. 5A

**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

00  $\mu\text{s}$  within  $\pm 100$  mV of nominal value

**Max. transient deviation:** typ. 60 mV

**Display**

**7-segment LED:** 5.50V (3 digit) / 5.00A (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: 33V

CH II: 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  $\pm 10\%$ ; 50/60 Hz

**Mains Fuse:** 115V: 2 x 5A slow blow 5 x 20 mm

230V: 2 x 2.5A slow blow 5 x 20 mm

**Power consumption:** max. 330VA/250W

**Operating temperature:** 0° to +40 °C

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

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

**Dimensions (W x H x D):** 285 x 90 x 389 mm

**Weight:** approx. 7.4 kg

Subject to change without notice.

**Accessories supplied:** Operator's Manual and power cable

**Optional accessories:** HZ10 Silicone test leads, HZ42 19" Rackmount Kit 2RU

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