

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



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

Outputs

2 x 0 – 32 V and 0..5.5 V 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 – 32 V, 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
00 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
05 μs within ± 10 mV of nominal value
00 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 II (5.5 V)

Range: 0 – 5.5 V, 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

00 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 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° 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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