

Triple Power Supply HM7042-5



HM7042-5

HZ42 19" Rackmount Kit
2RU

Silicone Test Cable HZ10S



- ☑ 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

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

Outputs

2 x 0...32 V/2 A and 0...5.5V/5A
ON/OFF pushbutton control, SMPS followed by a linear regulator, floating outputs for parallel/serial operation, current limit and electronic fuse.

Channel 1+3 (32V)

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

Resolution: 0.01V/1 mA

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

LED: indicates current limit

Channel 2 (5.5V)

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 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: 5.50V (3 digit)/5.00A (3 digit)

Resolution: 0.01V/10 mA

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

LED: indicates current limit

Maximum ratings

Max. voltage applicable to output terminals:

CH 1 + CH 3: 33V

CH 2: 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: 115...230V $\pm 10\%$; 50/60 Hz, CAT II

Mains Fuse: 115V: 2x 5A slow blow 5x 20 mm
230V: 2x 2.5A slow blow 5x 20 mm

Power consumption: max. 330VA/250W

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

Recommended accessories:

HZ10S 5 x silicone test lead (measurement connection in black)

HZ10R 5 x silicone test lead (measurement connection in red)

HZ10B 5 x silicone test lead (measurement connection in blue)

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