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Test & Measurement

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Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

If you click on the "Click-to-Call" logo below, you can call us for FREE!

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Product Lifecycle Management System

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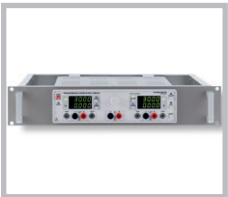


Triple Power Supply HM7042-5



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 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 – 5.5V, 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 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: 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. 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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