

Triple Power Supply HM 7042-4

- 2 x 0 32 V / 2 A + 0...5,5 V / 5 A
- 3 independent floating outputs
- Pushbutton for activating/deactivating outputs
- Separate voltage and current displays for each output
- Adjustable current limit and electronic fuse for each output
- Low ripple, high output power, good regulation
- Temperature-controlled fan
- Parallel and series operation

Test Equipment Depot 99 Washington Street Melrose, MA 02176-6024

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In this instrument concept the advantages of SMPS (high efficiency) and linear regulators (good regulation, low ripple) are combined avoiding the high losses typical of purely linear power supplies.

The current limit of each output is continuously adjustable. Reaching the current limit will cause automatic switchover from voltage to current regulation which is indicated by a LED. In order to protect sensitive loads or such loads which require multiple voltages an electronic fuse is provided which if activated switches all outputs off if the current limit of one output is touched. Practical application

is enhanced by a power relay which switches all outputs on/off if the associated pushbutton is depressed, hence it is not necessary to turn the whole instrument on/off and wait for the voltages to build up resp. decrease to zero The fan is temperature-controlled and remains inactive below 50 degrees C. The low ripple, good regulation as well as its various saftety features recommend this instrument for daily practical use. The **HM 7042-4** known and proven for many years will continue to serve our customers in the future.

Accessories included: Manual, warranty certificate. **Optional accessories:** HZ10: Silicon-insulated cable

HAMEG

Specifications

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

Outputs

 $2 \times 0-32 \text{ V} + 0..5,5 \text{ V}$ On/off pushbutton control.

SMPS followed by a linear regulator with overtemperature protection.
All outputs floating allowing parallel and series operation. Current limit each

output, electronic fuse.

Output 0 ... 32 V

Range: 2 x 0 – 32 V, continuous adjustment

2 knobs (coarse/fine)

Ripple: $\leq 1 \text{ mV}_{rms}$ Current: max. 2 A

Current limit,

electronic fuse: 0-2 A, continuously variable (knob)

Dynamic behaviour:

Load change from

10 to 90 % full load: 115 µs to within 15 mV

Dynamic impedance 10 mohms

Load change at 50 % basic

load ±10 % of full load: 50 µs to within 10 mV

Dynamic impedance 25 mohms

Displays:

7segment LED displays: 32.00V (4 digits) / 2,000A (4 digits)

Resolution: 0.01V / 1mA

Accuracy: ±3 digits voltage / ±4 digits current

LED: shows current limit

Output 5.5 V

Range: 0 - 5.5 V, continuously variable (knob)

Ripple: $\leq 2 \text{ mV}_{rms}$ Current: max. 5 A

Current limit.

electronic fuse: 0-5 A, continuously variable (knob)

Dynamic behaviour:

Load change from

10 to 90 % full load: 330 μs to within 35 mV

Dynamic impedance 9 mohms.

Load change at 50 % basic

load ± 10 % of full load: 100 μs to within 20 mV

Dynamic impedance 20 mohms

Displays

7segment LED: 5.50 V (3 digits) / 5.00 A (3 digits)

Resolution: 0.01 V / 10 mA

Accuracy: ±3 digits voltage / ±1 digits current

LED: shows current limit

Maximum rates

Reverse voltage: max. 60 V, each output
Reverse current: max. 5 A, each output

Voltage with respect to ground: 150 V, each output terminal

Mains voltage: max. 253 V_{ac}

Miscellaneous

Protection class: I acc. to EN 61010 (IEC 1010)

with protective earth

Mains supply: Part no. 23-7042-040A

230 V ±10% ac; 45 - 60 Hz

Mains fuse: 2 x 2.5 A slow blow 5 x 20 mm

Mains supply: Part no.23-7042-040B 115V ±10% ac; 45 – 60 Hz

Mains fuse: 2 x 5 A slow blow 5 x 20 mm

Power consumption: max. 330 VA / 250 W

Operating temperatuare: 0°....+40 degrees C

Storage temperature: -20+70 degrees C

Rel. humidity: < 80% no condensation

Size (W x H x D): $285 \times 90 \times 389 \text{ mm}$ (this includes any

protruding parts)

Weight: approx. 7,4 kg

Subject to change without notice

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