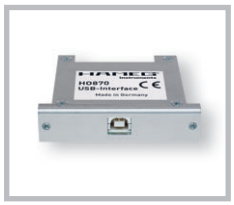
HAMEG Instruments

Quadruple High-Performance Power Supply HM7044

HM7044

optional USB | RS-232 | optional IEEE-488

HO870 USB-Interface



HO880 IEEE-488 (GPIB) Interface

Silicone test cable HZ10

- 4x 0-32 V/0-3 A
- Up to 384 W output power, pre-regulation with DC/DC converter ensures low dissipated power
- 4-digit displays for current and voltage
- Display resolution 10 mV/1 mA
- Parallel (up to 12 A) and Series (up to 128 V) operation
- Floating, overload and short-circuit proof outputs
- Low residual ripple due to linear inline regulators
- Tracking mode for all outputs
- Adjustable current limiting and electronic fuse for each output
- Possibility to link the fuses of several channels
- SENSE lines for each output for compensation of the voltage drop across the cables
- RS-232 Interface, optional: USB, IEEE-488

Quadruple High-Performance Power Supply HM7044

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

Identical specifications for outputs I, II, III and IV

Constant voltage source

Voltage setting:	0–32 V DC
Resolution:	10 mV, 4-digit display
Setting accuracy:	± 5 Digit
Ripple and noise:	‹ 1 mV_{rms} voltage regulation
Current setting:	5 mA–3 A
Resolution:	1 mA, 4-digit display
Setting accuracy:	± 8 digit
Ripple and noise:	‹ 1 mV_{rms} / 100 µA current regulation

Parallel operating mode

Output voltage:	32 V max.
Output current:	12 A max. with four outputs
Output power:	384 W max.

Serial operating mode

Output voltage:	128 V max. with four outputs
Output current:	3 A max.
Output power:	384 W max.

Tracking mode

Voltage tracking with up to 4 outputs

Electronic fuse

Current setting:	5 mA–3 A; fuse selectable for each output
Number of fuses:	4

Programmable output deactivation

On overcurrent at one output, up to four outputs can be disconnected from load.

Output deactivation

All outputs can be activated/deactivated separately or together by pressing a key.

7-segment displays

Eight displays, 4-digit voltage and current display

LED indicators

Output activated, current limit activated, fuse activated (3 LEDs per output)

Interface

Interface:	RS-232 (standard), IEEE-488 or USB (opt.)
Command - processing time:	100 ms until output voltage reaches the digitally transmitted level

General information

Interior resistance	
static:	typ. 2.5 mΩ
dynamic:	typ. 150 mΩ
10 / 90 % load settling time	(constant voltage ± 100 mV): ≤ 2.5 ms
Stability:	0.1 mV at line voltage variation of up to ± 10 % at ‹ 80 W per output
Temperature coefficient:	100 ppm / °C
Overcurrent cut-off time	(› 3 A to 0 A): ‹ 50 µs
DC floating outputs:	max. ±150 V to chassis ground
Safety class:	Safety class I (EN61010-1)
Power supply:	115/230 V~ ± 10 %, 50 - 60 Hz
Power consumption:	max. 530 W at 384 W power output
Operating temperature:	+ 10 °C to + 40 °C
Max. relative humidity:	10 – 90 % (without condensation)
Abmessungen (BxHxT):	285 x 125 x 365 mm
Weight:	approx. 8.5 kg

Accessories supplied: Operator's Manual and power cable
Optional accessories: HZ10S/R Silicone test lead, HZ43 19'' Rackmount Kit 3RU, HO870 USB Interface , HO880 IEEE-488 (GPIB) Interface, HO890 RS-232 Interface

www.hameg.com

HAMEG Instruments GmbH · Industriestr. 6 · D-63533 Mainhausen · Tel +49 (0) 6182 800 0 · Fax +49 (0) 6182 800 100 · www.hameg.com · info@hameg.com

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