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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.

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# Quadruple High-Performance Power Supply HM7044

HM7044



H0870 USB-Interface



H0880 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

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

### Parallel operating mode

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

### Serial operating mode

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

### Tracking mode

Voltage tracking with up to 4 outputs

### Electronic fuse

<b>Current setting:</b>	5 mA–3A; fuse selectable for each output
<b>Number of fuses:</b>	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

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

### General information

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

**Accessories supplied:** Operator's Manual and power cable

**Optional accessories:** HZ10S/R Silicone test lead, HZ43 19" Rackmount Kit 3RU, H0870 USB Interface, H0880 IEEE-488 (GPIB) Interface, H0890 RS-232 Interface

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