

# Quadruple High-Performance Power Supply HM7044



4x 0-32V/0-3A

H0870 USB-Interface



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

H0880 IEEE-488 Interface



Low residual ripple due to linear inline regulators

Tracking mode for all outputs

Adjustable current limiting and electronic fuse for each output

SENSE lines for each output

Silicone test cable HZ10



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

Serial RS-232 interface for connection to PC

**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)

**Dimensions (W x H x D):** 285 x 125 x 380 mm

**Weight:** approx. 8.5 kg

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

#### Optional accessories:

HZ10S/R Silicone test lead  
H0870 USB Interface  
H0880 IEEE-488 Interface  
H0890 RS-232 Interface

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