

Quadruple High-Performance Power Supply HM7044



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

Linear inline regulator with low residual ripple

Tracking mode for all outputs

Adjustable current limiting and electronic fuse for each output

SENSE lines for each output

Temperature-controlled fan

Silicone test cable HZ10



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

Serial operating mode

Output voltage:	128V 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: HZ10 Silicone test leads

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