

Quadruple High-Performance Power Supply HM7044

HM7044

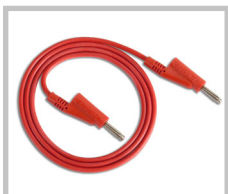


- 4 x 0...32V/0...3 A
- Up to 384W output power, pre-regulation with DC/DC converter ensures low dissipated power
- 4-digit displays for current and voltage
- Display resolution 10mV/1mA
- Parallel (up to 12A) and Series (up to 128V) operation
- Floating, overload and short-circuit proof outputs
- Low 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
- Galvanically isolated USB/RS-232 Interface, optional IEEE-488 in HM7044G

HO880 IEEE-488 (GPIB)
Interface (Option)



Silicone test cable HZ10R



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All data valid at 23 °C after 30 minute warm-up

Identical specifications for outputs 1, 2, 3 and 4

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

Interface:	USB/RS-232 (H0820), IEEE-488 (option)
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...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, CAT II
Power consumption:	max. 530 W at 384 W power output
Operating temperature:	+5°C...+40°C
Storage temperature:	-20°C...+70°C
Rel. humidity:	5%...80% (non condensing)
Dimensions (W x H x D):	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, H0880 IEEE-488 (GPIB) Interface (galvanically isolated)

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