

Triple Power Supply HM7042-5



HM7042-5

HZ42
19" Rackmount Kit 2RU



Silicone Test Cable HZ10S



- ✓ 2 x 0...32V/0...2A 1 x 0...5.5V/0...5A
- ✓ High-Performance and inexpensive Laboratory Power Supply
- ✓ Floating, overload and short-circuit proof Outputs
- ✓ Separate Voltage and Current Displays for each Output
4 Digits at Channel 1+3; 3 Digits at Channel 2
- ✓ Display Resolution:
10mV/1mA at Channel 1+3; 10mV/10mA at Channel 2
- ✓ Protection of sensitive Loads by Current Limit or Electronic Fuse
- ✓ Pushbutton for activating/deactivating all Outputs
- ✓ Low Residual Ripple, high Output Power, very good Regulation
- ✓ Parallel (up to 9A) and Series (up to 69.5V) Operation
- ✓ Temperature-controlled Fan

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

Outputs

2 x 0...32V/2A and 0...5.5V/5A	ON/OFF pushbutton control, SMPS followed by a linear regulator, floating outputs for parallel/serial operation, current limit and electronic fuse.
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Channel 1+3 (32V)

Range:	2 x 0...32V, continuously adjustable 2 knobs (coarse/fine)
Ripple:	≤100 μV _{rms} (3 Hz...300 kHz)
Current:	max. 2A
Current limit/ electronic fuse:	0...2A, continuously adjustable (knob)
Recovery time (10...90% load variation)	80 μs within ±1 mV of nominal value 30 μs within ±10 mV of nominal value 0 μs within ±100 mV of nominal value
Max. transient deviation:	typ. 75 mV
Recovery time (50% basic load, 10% load variation)	30 μs within ±1 mV of nominal value 5 μs within ±10 mV of nominal value 0 μs within ±100 mV of nominal value
Max. transient deviation:	typ. 17 mV
Display	
7-segment LED:	32.00V (4 digit)/2.000A (4 digit)
Resolution:	0.01 V/1 mA
Display accuracy:	±3 digit voltage/±4 digit current
LED:	indicates current limit

Channel 2 (5.5V)

Range:	0...5.5V, continuously adjustable (knobs)
Ripple:	≤100 μV _{rms} (3 Hz...300 kHz)
Current:	max. 5A
Current limit/electronic fuse:	0...5A, continuously adjustable (knob)
Recovery time (10...90% load variation):	80 μs within ±1 mV of nominal value 10 μs within ±100 mV of nominal value
Max. transient deviation:	typ. 170 mV
Recovery time (50% basic load, 10% load variation):	30 μs within ±1 mV of nominal value 15 μs within ±10 mV of nominal value 0 μs within ±100 mV of nominal value
Max. transient deviation:	typ. 60 mV
Display	
7-segment LED:	5.50V (3 digit)/5A (3 digit)
Resolution:	0.01 V/10 mA
Display accuracy:	±3 digit voltage/±1 digit current
LED:	indicates current limit

Maximum ratings

Max. voltage applicable to output terminals:	
CH 1 + CH 3:	33V
CH 2:	6V
Reverse voltage:	max. 0.4V
Reverse current:	max. 5A
Voltage to earth:	max. 150V

Miscellaneous

Safety class:	Safety class I (EN61010-1)
Mains supply:	115/230V ±10%; 50...60 Hz, CAT II
Mains Fuse:	115V: 2 x 5A slow blow 5 x 20 mm 230V: 2 x 2.5A slow blow 5 x 20 mm
Power consumption:	max. 330VA/250W
Operating temperature:	+5...+40 °C
Storage temperature:	-20...+70 °C
Rel. humidity:	5...80% (non condensing)
Dimensions (W x H x D):	285 x 75 x 365 mm
Weight:	approx. 7.4 kg

Accessories supplied: Operating manual, line cord, CD

Recommended accessories:

HZ10S	5 x silicone test lead (measurement connection in black)
HZ10R	5 x silicone test lead (measurement connection in red)
HZ10B	5 x silicone test lead (measurement connection in blue)
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