

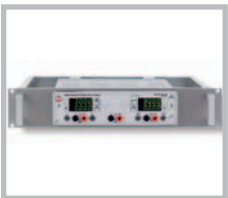
Triple Power Supply HM7042-5

HM7042-5



- 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

HZ42 19" Rackmount kit 2RU



Silicone test cable HZ10



Triple Power Supply HM7042-5

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

Outputs

2 x 0...32V and 0..5.5V ON/OFF pushbutton control, SMPS followed by a linear regulator, floating outputs for parallel/serial operation, current limit and electronic fuse.

Channel 1 + 3 (32 V)

Range: 2 x 0...32V, continuously adjustable
2 knobs (coarse/fine)

Ripple: $\leq 100 \mu\text{V}_{\text{rms}}$ (3 Hz...300 kHz)

Current: max. 2 A

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
00 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
05 μs within ± 10 mV of nominal value
00 μs within ± 100 mV of nominal value

Max. transient deviation: typ. 17 mV

Display

7-segment LED: 32.00 V (4 digit) / 2.000 A (4 digit)

Resolution: 0.01 V / 1 mA

Display accuracy: ± 3 digit voltage / ± 4 digit current

LED: indicates current limit

Channel 2 (5.5 V)

Range: 0...5.5V, continuously adjustable (knobs)

Ripple: $\leq 100 \mu\text{V}_{\text{rms}}$ (3 Hz...300 kHz)

Current: max. 5 A

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
00 μs within ± 100 mV of nominal value

Max. transient deviation: typ. 60 mV

Display

7-segment LED: 5.50 V (3 digit) / 5.00 A (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 (ON/OFF):

| | |
|--------------------------|------------|
| CH 1 + CH 3: | 33 V |
| CH 2: | 6 V |
| Reverse voltage: | max. 0.4 V |
| Reverse current: | max. 5 A |
| Voltage to earth: | max. 150 V |

Miscellaneous

| | |
|--------------------------------|--|
| Safety class: | Safety class I (EN61010-1) |
| Mains supply: | 115 V/230 V $\pm 10\%$; 50/60 Hz, CAT II |
| Mains Fuse: | 115 V: 2 x 5 A slow blow 5 x 20 mm 230 V: 2 x 2.5 A slow blow 5 x 20 mm |
| Power consumption: | max. 330 VA/250 W |
| Operating temperature: | +5 °C...+40 °C |
| Storage temperature: | -20 °C...+70 °C |
| Max. 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: Operator's Manual and power cable
Optional accessories: HZ10S/R Silicone test lead
HZ42 19" Rackmount Kit 2RU

www.hameg.com