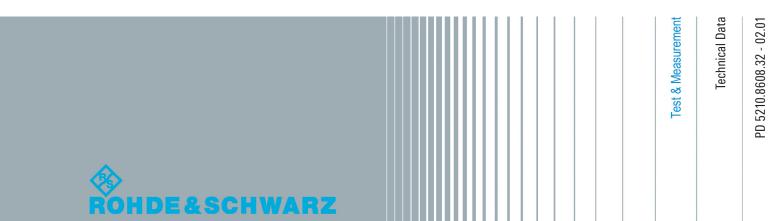
HM7042-5 Triple Power Supply Technical Data



Key facts

- 1 × 0...5.5V/0...5A
- I High-performance and inexpensive laboratory power supply
- I 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
- I Protection of sensitive loads by current limit or electronic fuse
- Pushbutton to activate/deactivate all outputs
- I Low residual ripple, high output power, excellent regulation
- Parallel (up to 9A) and series (up to 69.5V) operation
- ı Temperature-controlled fan



Technical Data

Triple Power Supply		
HM7042-5		
All data valid at 23°C after 30 minutes warm-up.		
Outputs		
2 x 032 V/2 A and 05,5 V/5 A	ON/OFF pushbutton control, SMPS followed by a linear regulator, floating outputs for parallel/serial operation, current limit and electronic fuse	
Output 1+3 (32V)		
Range:	2 x 032V, continuously adjustable 2 knobs (coarse/fine)	
Ripple:	≤100µVEff (3Hz300kHz) typ., ≤1mV (10Hz1MHz)	
Current:	max. 2A	
Current limit/electronic fuse:	02A, continuously adjustable (knob)	
Recovery time (1090% load variation):	80μs within ±1 mV of nominal value 30μs within ±10 mV of nominal value 0μs within ±100 mV of nominal value	
Max. transient deviation:	typ. 75mV	
Recovery time (50% basic load, 10% load variation):	$30\mu s$ within $\pm 1m V$ of nominal value $5\mu s$ within $\pm 10m V$ of nominal value $0\mu s$ within $\pm 100m V$ 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/±4digit current	
LED:	indicates current limit	
Output 2 (5,5V)		
Range:	05.5 V, continuously adjustable (knobs)	
Ripple:	≤100µVEff (3Hz300kHz) typ., ≤1mV (10Hz1MHz)	
Current:	max. 5A	
Current limit/electronic fuse:	05A, continuously adjustable (knob)	
Recovery time (1090% 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):	$30\mu s$ within $\pm 1m V$ of nominal value $15\mu s$ within $\pm 10m V$ of nominal value $0\mu s$ within $\pm 100m V$ of nominal valuee	
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:		
CH 1 + CH 3	33 V	
CH 2	6V	
Reverse voltage:	max. 0,4 V	
Reverse current:	max. 5A	
Voltage to earth:	max. 150V	

Miscellaneous	
Safety class:	Safety class I (EN61010-1)
Mains supply:	115 V/230 V ±10%; 5060 Hz, CAT II
Mains Fuse:	115V: 2 x 5A; slow blow 5 x 20mm 230V: 2 x 2,5A; slow blow 5 x 20mm
Power consumption:	max. 330 VA/250 W
Operating temperature:	+5+40°C
Storage temperature:	-20+70°C
Rel. humidity:	580% (non condensing)
Dimensions (W x H x D):	285 x 75 x 365 mm
Weight:	approx. 7,4kg

Accessories supplied:

Operating manual, line cord

Recommended accessories:

HZ10S 5 x silicone test lead (black) HZ10R 5 x silicone test lead (red) HZ10B 5 x silicone test lead (blue) HZ42 19" Rackmount Kit 2RU