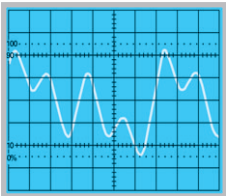


Arbitrary Power Supply HM8143



2x 0-30 V/0-2 A 5 V/0-2 A

AF arbitrary signal



Display resolution 10 mV/1 mA

Arbitrary waveform power supply (1024 points, 12 bit)

Tracking mode for 30 V outputs

External modulation of output voltages

H0880 IEEE-488 Interface



Electronic load up to 60 W per channel (max. 2 A)

SENSE lines

Multimeter mode for all adjustable outputs

H0870 USB-Interface



RS-232 Interface, optional: USB, IEEE-488



Arbitrary Power Supply HM8143

Valid at 23 °C after a 30 minute warm-up period

Outputs

2 x 0-30 V / 2 A On/off pushbutton control, Floating out-puts (allowing parallel and series operation), current limit, electronic fuse, tracking mode
 1 x 5 V / 2 A

Channels I + III (0-30 V)

Output voltage: 2 x 0 – 30V
Setting resolution: 10 mV
Setting accuracy: ± 3 digits (typ. ± 2 digit)
Measurement accuracy: ± 3 digits (typ. ± 2 digit)
Residual ripple: < 5 mV_{rms} (3 Hz - 300 kHz)
Recovery time (10 % - 90 % load variation)
 45 µs within ±1 mV of nominal value
 16 µs within ±100 mV of nominal value
Max. transient deviation: typ. 800 mV
Recovery time (50 % basic load, 10 % load variation)
 30 µs within ±1 mV of nominal value
 10 µs within ±100 mV of nominal value
Max. transient deviation: typ. 120 mV
Compensation of line resistances (SENSE): up to 300 mV
Output current: 2 x 0 - 2 A
Setting resolution: 1 mA
Setting accuracy: ± 3 digits (typ. ± 2 digit)
Measurement accuracy: ± 3 digits (typ. ± 2 digit)
Recovery time: < 100 µs

Channel II (5V)

Accuracy: 5 V ± 50 mV
Output current: max. 2 A
Ripple: ≤ 100 µV_{rms} (3 Hz - 300 kHz)
Recovery time (10 % - 90 % load variation)
 30 µs within ±1 mV of nominal value
 0 µs within ±100 mV of nominal value
Max. transient deviation: typ. 60 mV
Recovery time (50 % basic load, 10 % load variation)
 30 µs within ±1 mV of nominal value
 0 µs within ±100 mV of nominal value
Max. transient deviation: typ. 20 mV

Arbitrary Function (Channel I only)

Number of points: 1024
Resolution: 12 Bit
Parameters of points: Dwell time and Voltage
Dwell time: 100 µs ... 60 s
Repetition rate: 1...255 and continuous

Inputs:

Modulation input (BNC socket): 0-10V
Accuracy: 1 % of full scale
Modulations bandwidth (- 3 dB): > 50 kHz
Slew rate (dV/dt): 1 V/µs
Trigger input (BNC socket): Triggering the arbitrary function
Level: TTL

Miscellaneous

Max. voltage applicable to output terminals (ON/OFF) CH I + CH III: 30V
 CH II: 5V
Voltage to earth: max. 150V
Display: 4 x 4-digit 7-segment LEDs
Interface: RS-232 (standard), IEEE-488 or USB (option)
Protection class: I acc. to EN 61010 (IEC 61010) with protective earth
Power supply: 115 / 230V ± 10 %; 50 / 60 Hz
Mains fuse: 115V: 2 x 6 A slow blow 5 x 20 mm
 230V: 2 x 3.15 A slow blow 5 x 20 mm
Power consumption: approx. 300 VA
Operating temperature: 0 °C...40 °C
Storage temperature: -20 °C...+70 °C
Max. relative humidity: < 80 % (without condensation)
Dimensions (WxHxD): 285 x 75 x 365 mm
Weight: approx. 9 kg

Accessories supplied: Operator's Manual and power cable

Optional accessories:
 HZ10S/R Silicone test lead
 HZ42 19" Rackmount kit 2RU
 H0870 USB Interface
 H0880 IEEE-488 interface