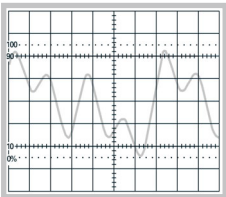


Arbitrary Power Supply HM8143

HM8143



AF arbitrary signal



HO880 IEEE-488 (GPIB)
Interface (Option)



HZ42 19" Rackmount kit 2RU



- ☑ 2 x 0...30V/0...2A 1 x 5V/0...2A
- ☑ Display resolution 10mV/1mA
- ☑ Parallel (up to 6A) and Series (up to 65V) Operation
- ☑ Electronic load up to 60W per Channel (max. 2A)
- ☑ Arbitrary waveform power supply (4096 points, 12 bit):
Creation of customized waveforms
- ☑ Software for remote control and for creation of Arbitrary waveforms
- ☑ Electronic fuse and Tracking mode for 30V outputs
- ☑ External modulation of output voltages:
Input Voltage 0...10V, bandwidth 50kHz
- ☑ SENSE lines for compensation of the voltage drop across the cables
- ☑ Multimeter mode for all adjustable outputs
- ☑ Galvanically isolated USB/RS-232 Interface, optional IEEE-488 in HM8143G

Arbitrary Power Supply HM8143

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

Outputs

2 x 0...30 V/2 A
1 x 5 V/2 A

On/off pushbutton control, Floating outputs (allowing parallel and series operation), current limit, electronic fuse, tracking mode

Channels 1 + 3 (0-30 V)

Output voltage: 2 x 0...30 V
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 2 (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 1 only)

Number of points: max. 4096

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...10 V

Accuracy: 1 % of full scale

Modulations bandwidth (-3dB): > 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 1 + CH 3: 30 V
CH 2: 5 V

Voltage to earth: max. 150 V

Display: 4 x 4-digit 7-segment LEDs

Interface: USB/RS-232 (H0820), IEEE-488 (option)

Protection class: I acc. to EN 61010 (IEC 61010) with protective earth

Power supply: 115...230 V ± 10%; 50/60 Hz, CAT II

Mains fuse: 115 V: 2 x 6 A slow blow 5 x 20 mm
230 V: 2 x 3,15 A slow blow 5 x 20 mm

Power consumption: approx. 300 VA

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 75 x 365 mm

Weight: approx. 9 kg

Accessories supplied: Operator's Manual and power cable, Software
Optional accessories: HZ10S/R Silicone test lead, HZ42 19" Rackmount kit 2RU, H0880 IEEE-488 (GPIB) Interface (galvanically isolated)

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