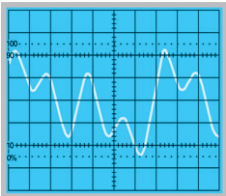


Arbitrary Power Supply HM8143



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

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

SENSE lines

Multimeter mode for all adjustable outputs

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

H0880 IEEE-488 Interface



H0870 USB-Interface



Arbitrary Power Supply HM8143

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

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
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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