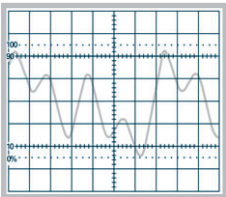


## Arbitrary Power Supply HM8143

HM8143



AF arbitrary signal



H0880 IEEE-488 (GPIB)  
Interface



H0870 USB-Interface



2x 0–30 V/0–2 A      1x 5 V/0–2 A

Display resolution 10 mV/1 mA

Parallel (up to 6 A) and Series (up to 65 V) Operation

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 30 V outputs

External modulation of output voltages:  
Input Voltage 0–10 V, bandwidth 50 kHz

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

SENSE lines for compensation of the voltage drop across the  
cables

Multimeter mode for all adjustable outputs

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

### 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 <sub>rms</sub> (3 Hz - 300 kHz)
Recovery time (10 % - 90 % load variation)	30 µs within ±1 mV of nominal value 10 µs within ±100 mV of nominal value
Max. vorüberg. Abweichung:	typ. 800 mV
Vollständige Lastausregelung (bei 50% Grundlast und ±10% Lastsprung)	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:	5V ± 50 mV
Output current:	max. 2 A
Ripple:	≤ 100 µV <sub>rms</sub> (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:	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 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

**Im Lieferumfang enthalten:** Operator's Manual and power cable, Software  
**Optional accessories:** HZ10S/R Silicone test lead, HZ42 19" Rackmount kit 2RU, H0870 USB Interface, H0880 IEEE-488 (GPIB) Interface

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