

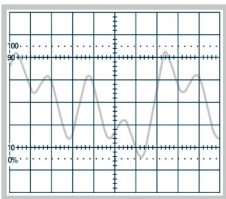
Arbitrary Power Supply HM8143



HM8143



AF Arbitrary Signal



H0880 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 (GPIB)

Arbitrary Power Supply HM8143

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

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 1+3 (0...30V)

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 lead resistances (SENSE):	
	up to 300 mV
Output current:	2 x 0...2A
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:	5V ±50 mV
Output current:	max. 2A
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...10V
Accuracy:	1% of full scale
Modulation bandwidth (-3 dB):	
	>50 kHz
Slew rate (dV/dt):	1V/µs
Trigger input (BNC socket):	
	Triggering the arbitrary function
Level:	TTL

Miscellaneous

Max. voltage applicable to output terminals	
CH 1 + CH 3:	30V
CH 2:	5V
Voltage to earth:	max. 150V
Display:	4 x 4-digit 7-segment LEDs
Interface:	USB/RS-232 (H0820), IEEE-488 (GPIB) (optional)
Protection class:	I acc. to EN 61010 (IEC 61010) with protective earth
Power supply:	115/230V ±10%; 50...60 Hz, CAT II
Mains fuse:	115V: 2 x 6A slow blow 5 x 20 mm 230V: 2 x 3.15A slow blow 5 x 20 mm
Power consumption:	approx. 300VA
Operating temperature:	+5...+40 °C
Storage temperature:	-20...+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: Operating manual, line cord, CD, Software

Recommended accessories:

H0880	IEEE-488 (GPIB) Interface (galvanically isolated)
HZ10S	5 x silicone test lead (measurement connection in black)
HZ10R	5 x silicone test lead (measurement connection in red)
HZ10B	5 x silicone test lead (measurement connection in blue)
HZ13	Interface cable (USB) 1.8 m
HZ14	Interface cable (serial) 1:1
HZ42	19" Rackmount Kit 2RU
HZ72	GPIB-Cable 2 m