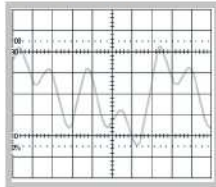


Arbitrary Power Supply HM8143

HM8143



AF arbitrary signal



HO880 IEEE-488 (GPIB)
Interface (Option)



HZ42 19" Rackmount kit 2RU



- ✓ 2x 0...30V/0...2A 1x 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...30V/2A	On/off pushbutton control, Floating outputs
1 x 5V/2A	(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
Max. 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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