

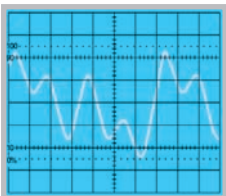
Arbitrary Power Supply HM8143

2nd Quarter
2006



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)

Tracking mode for 30 V outputs

External modulation of output voltages

H0880 IEEE-488 Interface



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

SENSE lines

Multimeter mode for all adjustable outputs

H0870 USB-Interface



Arbitrary Power Supply HM8143

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

Output voltages:	2 x 0 - 30 V _{DC} ; 1 x 5 V _{DC}
Output currents:	2 x 0 - 2 A _{DC} ; 1 x 2 A _{DC}
Resolution:	10 mV/1 mA
Operating modes:	constant voltage (CV); constant current (CC)
Output impedance:	< 5 mΩ 0.1 μF + 1.5 mH (V-source)
Residual ripple (V):	< 2 mV _{rms} (at full load; 10 Hz - 100 kHz) < 3 mV _{rms} (at full load; 10 Hz - 1 MHz)
(A):	< 60 μA _{rms} (at full load)
Bandwidth (-3 dB):	> 8 kHz
Slew rate (dV/dt):	typ. > 0.7 V/μs
Rise time:	typ. 50 μs
Recovery time:	typ. 40 μs
Current limit response time:	200 μs (2 μs f. I _{out} > 3 A)
Stability (dV/dθ):	< 300 ppm/°C + 250 μV/°C
(dI/dθ):	< 300 ppm/°C + 25 μA/°C
Modulation inputs:	0 - 3 V (± 1 V); R _i = 10 kΩ
Setting accuracy:	0,2% of reading ± 3 digits
Measurement accuracy:	0,2% of reading ± 1 digit
Load regulation:	0.03% (at V _A = 15 V; ΔI = 1 A)
Line regulation:	< 1 mV/V
Compensation for line resistances:	to max. 1 Ω
Setting time:	< 5 ms (manual), < 10 ms (IEEE)

Arbitrary function	(for one output voltage only)
Number of points:	1024
Point parameters:	voltage and dwell time
Min. dwell time:	100 μs
Max. dwell time:	50 sec.

Step widths: 100 μs, 200 μs, 500 μs; 1, 2, 5 ms;
10, 20, 50 ms...50 s (16 values)

Repeat rate in arbitrary mode: 1-255 fach and ∞

Vertical resolution: 10 mV

Sink mode

Operating mode: constant current (CC)
Output power: 60 Watt (max. 2 A) per output
Output impedance: > 100 kΩ + 1 μF (I-source)
Programming accuracy: 0,2% of reading ± 3 digits
Resolution: 1 mA
Measurement accuracy: 0.2% of reading ± 1 digit

Miscellaneous

Safety class: Safety class I (EN61010-1)
Power supply: 115/230 V ± 15%; 50/60 Hz
Power consumption: approx. 160 W
Operating temperature: 0°C to +40°C
Max. relative humidity: 10%-90% (without condensation)
5%-95% RH
Dimensions (W x H x D): 285 x 75 x 365 mm
Weight: approx. 10 kg

Accessories supplied: Operator's Manual and power cable

Optional accessories: HZ10 test leads, HZ42 19" Rackmount kit 2RU, HZ72-S/L Cable for IEEE bus, 1 m/1.5 m, H0880 IEEE-488 interface, H0890 RS-232 interface

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