

HM8143

Arbitrary Power Supply

Technical Data



Key facts

- ▮ 2x 0V to 30V / 1x 5V, 3x 2A (130W)
- ▮ Linear regulated, two-quadrant power supply (current source and sink)
- ▮ Realtime voltage and current values
- ▮ Advanced parallel and serial operation
- ▮ Setting and readback resolution: 10mV, 1mA
- ▮ Electronic fuse and tracking mode
- ▮ Front connectors: 4mm safety sockets
- ▮ SENSE connectors for line loss compensation (30V channels)
- ▮ External modulation of output voltages up to 20kHz
- ▮ Arbitrary module: 4,096 points, 12 bit
- ▮ RS-232/USB dual interface, IEEE-488 (GPIB) optionally

Specifications

HM8143

Three-Channel Arbitrary Power Supply

from firmware version 2.45

Electrical Specifications

Total power output	130W
Number of outputs	3
Front connectors	4 mm safety sockets
Maximum power per channel	
CH1, CH3	60W
CH2	10W
Voltage output	
CH1, CH3	0V to 30V
CH2	5V (± 50 mV)
Current output	
all channels	max 2A
Current sinking	
CH1, CH3	max 2A
Line & load regulation	
Constant voltage mode	
CH1, CH3	$<0.02\% + 5$ mV
CH2	$<0.25\% + 10$ mV
Constant current mode	
CH1, CH3	$<0.02\% + 5$ mA
CH2	(no constant current mode)
Voltage ripple 3 Hz to 300 kHz (front connectors)	
CH1, CH3	<5 mV _{rms}
CH2	<1 mV _{rms}
Transient response time (10% to 90% load change)	
CH1, CH3	<45 μ s in a band of ± 20 mV of V_{set} max. deviation: <800 mV
CH2	<45 μ s in a band of ± 20 mV of V_{set} max. deviation: <200 mV
SENSE connectors available for	CH1, CH3
Max. SENSE compensation	300mV
Programming accuracy (23°C $\pm 5^\circ$ C)	
Voltage / Current	
CH1, CH3	± 3 digits (typ. ± 2 digits)
Readback accuracy (23°C $\pm 5^\circ$ C)	
Voltage / Current	
CH1, CH3	± 3 digits (typ. ± 2 digits)
Resolution	
Voltage	
CH1, CH3	10mV
Current	
CH1, CH3	1mA
Voltage to earth	max. 150V _{DC}
Over current protection (electronic fuse)	Yes

Modulation Input (CH1, CH3)	
Rear connectors	2x BNC
Input level	0V to 10V
Accuracy	1% of full scale
Modulation bandwidth	DC to 20 kHz
Trigger Input (BNC)	
Function	Triggering the arbitrary function
Trigger level	TTL
Edge direction	rising, falling
Arbitrary Function (CH1)	
Parameter	Voltage, dwell time
Number of Points	max. 4,096
Dwell time	100 μ s to 60s
Repetition rate	continuous or burst mode with 1 to 255 repetitions
Resolution	12 Bit
Trigger	interface, trigger input
Remote Interfaces	
Standard	Dual interface RS-232 / USB (HO820)
Optional	IEEE-488 (GPIB) interface (HO880)
Miscellaneous	
Input power option	115V _{AC} / 230V _{AC} ($\pm 10\%$), 50 Hz to 60 Hz, CAT II
Power consumption	300VA
Mains fuses	
115V _{AC}	2x 6A, slow blow (5mm x 20mm)
230V _{AC}	2x 3.15A, slow blow (5mm x 20mm)
Operating temperature	+5°C to +40°C
Storage temperature	-20°C to +70°C
Humidity	5% to 80%
Display	4x 4 digits, 7-segment LEDs
Dimensions (H x W x D)	75 x 285 x 365 mm
Rack mount capability (19" rack mount kit, 2RU)	Yes (HZ42)
Weight	9 kg

The specifications are based on a 30 min warm-up period.

Accessories included:

Line cord, operating manual, software-CD

Recommended accessories:

HZ42 19" rackmount kit, 2 RU
 HZ10S 5 x silicon test lead (black)
 HZ10R 5 x silicon test lead (red)
 HZ10B 5 x silicon test lead (blue)
 HO880 IEEE-488 (GPIB) interface card



北京海洋兴业科技股份有限公司 (证券代码: 839145)

北京市西三旗东黄平路19号龙旗广场4号楼 (E座) 906室

电话: 010-62176775 62178811 62176785

企业QQ: 800057747 维修QQ: 508005118

企业官网: www.hyxyyq.com

邮编: 100096

传真: 010-62176619

邮箱: market@oitek.com.cn

购线网: www.gooxian.com



扫描二维码关注我们
 查找微信公众号: 海洋仪器