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Complimentary Reference Material

This PDF has been made available as a complimentary service for you to assist in evaluating this model for your testing requirements.

TMG offers a wide range of test equipment solutions, from renting short to long term, buying refurbished and purchasing new. Financing options, such as Financial Rental, and Leasing are also available on application.

TMG will assist if you are unsure whether this model will suit your requirements.

Call TMG if you need to organise repair and/or calibrate your unit.

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Product Lifecycle Management System

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Triple Power Supply HM8040-3

HM8040-3



Mainframe HM8001-2
required for operation



Silicone test lead HZ10



2x 0-20 V/0.5 A 1x 5 V/1 A

3-digit switchable displays (Display resolution 0.1 V/1 mA)

Pushbutton for activating/deactivating all outputs

Adjustable current limiting and electronic fuse

Low residual ripple and low noise

Triple Power Supply (module) HM8040-3

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

Outputs

2 x 0-20V and 5V Single pushbutton control of all outputs, linear regulators with overheating protection. Floating outputs for parallel/serial operation, current limit and electronic fuse

20 V Output

Setting range: 2 x 0 – 20V, continuously variable

Residual ripple: $\leq 1 \text{ mV}_{\text{rms}}$

Output current: max. 0.5 A

Current limit / electronic fuse: 0 – 0.5 A continuously variable

Dynamic behaviour:

Load change 10 % - 90 % of full load

Recovery time: 200 μs

Dyn. transient deviation: typ. 2 mV

Dyn. output impedance: 3.75 m Ω

Load change at 50 % basic load and ± 10 % of full load

Recovery time: 150 μs

Dyn. transient deviation: 400 μV

Dyn. output impedance: 4 m Ω

5 V Output

Range: 5 V ± 0.5 V screw-driver adjustment

Ripple and noise: $\leq 1 \text{ mV}_{\text{rms}}$

Output current: max. 1 A continuous, short-circuit-proof

Combined displays of 20 V outputs

7-segment LED: 2 x 3-digit displays, each switchable for voltage and current (V, mA)

Resolution: 0.1 V/1 mA

Display accuracy: ± 1 digit voltage/ ± 4 digit current

LED: current limit indication

Maximum limits

Reverse voltage: 25 V, each output

Reverse current: 500 mA, each output

Voltage to ground: 100 V, each terminal

Temperature control: If the inside temperature exceeds 75...80 °C, the HM8040-3 will be turned off.

Miscellaneous

Safety class: Safety class I (EN61010-1)

Power supply (from mainframe):

1 x 8 V / 1 A

2 x 24 V / 530 mA

1 x 5 V / 400 mA

2 x 18 V_{ac} / 100 mA

($\Sigma = 40 \text{ W}$)

Current output

of 2 HM8040-3 with HM8001-2: sum of all channels $< 2 \text{ A}$

Operating temperature: 0 °C to +40 °C

Storage temperature: -20 °C to +70 °C

Max. relative humidity: < 80 % (without condensation)

Dimensions (W x H x D): 135 x 68 x 228 mm

Weight: approx. 1.07 kg

Accessories supplied: Operator's Manual

Optional accessories: HZ10S/R Silicone test lead

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