

Specifications

(Reference Temperature: 23°C ± 1°C)

Output Voltages

Dual 0 to 20V, continuously variable
5.0V, variable ±0.5V

Voltages 2x0 to 20V

Range:	0 to 20V, continuously variable with coarse and fine voltage output controls
Resolution:	≤0.1%
Internal Resistance:	≤15mΩ (typ. 7mΩ)
Stability:	≤2.5mV (I max.: 2x200mA) at line voltage variations of up to 10%
Settling Time:	≤80μs
Temperature Coefficient:	≤0.1%/°C
Ripple and Noise:	≤1mV _{rms}
Output Current:	max. 0.5A
Current Limit:	10mA to 500mA continuously adjustable
Resolution:	<1%

Voltage +5V

Range:	5V, variable ±0.5V
Internal Resistance:	≤0.05Ω
Stability:	≤5mV at line voltage variations of up to 10%
Recovery Time:	≤100μs
Temperature Coefficient:	≤0.1%/°C
Ripple and Noise:	≤5mV _{rms}
Output Current:	max. 1A

Display

Two 3 digit 7 segment LED displays
Indication for V and mA (selectable)
Current limit indicator

General Information

All outputs are floating.
Series connection of all outputs possible.
Outputs are switchable from the front panel.
Built in overheating protection.

Supply Voltages (from HM8001-2):	1x8V ~ 0.32A 2x24V = 0.5A 1x5V = 1A (P = 32W max.)
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Operating Conditions:	+10°C to +40°C
Max. relative humidity:	80% (no condensation)

Dimensions (without 22 pin flat connector):	W 135, H 68, D 228mm
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Weight:	approx. 1kg
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Values without tolerances are meant to be guidelines and represent characteristics of the average instrument.



Triple Power Supply HM8040-2

- 3 independent DC Supply Voltages
- 2x0-20V, 0.5A; 1x5V, 1A (operated with HM8001-2)
- Floating Outputs
- Digital Display for Voltage and Current
- Adjustable Current Limiter
- Parallel and Serial Operation

The **HM8040-2 Triple Power Supply** is a compact modular unit developed to supply power to laboratory test systems. This power source is widely used in technical schools and educational institutions. The **HM8040-2** is a conventionally designed, linear series regulator configuration that assures low noise power output. Three **floating** output voltages supply a maximum power of **25 Watts**.

Two **continuously variable** outputs of **0 to 20V** are combined with a **5.0V** output that is adjustable **±0.5V**. This is an excellent feature when working with digital logic circuitry, such as TTL or ECL. Current limiting for both **20V** ranges is continuously adjustable. The transition from voltage control to current control is automatic and indicated by LEDs. Each **3 digit display** is switchable to display either voltage or current. All outputs can be switched ON / OFF simultaneously via a push button switch, which permits voltage value set up while the output is switched off. **Series** or **parallel** configuration is possible between all of the three floating outputs.

Excellent line and load regulation is provided in addition to low residual ripple and noise. There is suitable protective circuitry for all of the power outputs. The **HM8040-2** is another proof for the low cost alternative and flexibility of the HM8000 Series Modular System.

Accessories supplied
Operators Manual

Optional accessories
HZ10: Silicon test lead,
with stackable banana
plugs at each end