



ABN 43 064 478 842

231 Osborne Avenue Clayton South, VIC 3169
PO Box 1548, Clayton South, VIC 3169
t 03 9265 7400 f 03 9558 0875
freecall 1800 680 680
www.tmgtestequipment.com.au

Test & Measurement

- > sales
- > rentals
- > calibration
- > repair
- > disposal

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.

If you click on the "Click-to-Call" logo below, you can call us for FREE!

TMG Corporate Website

TMG Products Website



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Product Lifecycle Management System

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1020L POWER AMPLIFIER

200 Watts of RF Power
For Industrial, Lab
& Medical Use,

Featuring;

- 10 KHz – 5 MHz
- Power Measurement
 - o Forward & Reflected
- Solid State Reliability
- Forced Air Cooling



The 1020L Amplifier is a rugged source of RF power for ultrasonics, induction heating and laser modulation as well as plasma applications. It is a totally solid state solution employing RF DMoS FETs in the power amplification stages, offering simultaneous forward and reverse power readouts, and RS232 port for data collection. The 1020L reflects E&I's commitment to reliable and robust RF power.

Flexible Operation:

The 1020L produces 200 Watts of quasi linear class AB power over a frequency range of 10 KHz to 5 MHz, with a nominal power gain of 53 dB (+/-1dB). Operation over the entire frequency range is possible without the need for any switching.

The front panel display provides simultaneous measurements of forward and reflected power as well as the unit's status. The RS232 connector at the rear of the unit can also be used to capture this data and reset the unit should a fault occur.

The E&I 1020L is a 19" rack mount unit 3U high. It employs an integral power supply capable of operation at 115 or 220 VAC, 50 – 60 Hz. The unit weighs approximately 45 lbs or 16 Kg.



150 Lucius Gordon Drive.
Rochester, NY 14586
Tel: (585) 214 0598
Fax: (585) 214 0580
www.eandilttd.com

1020L POWER AMPLIFIER

Class of Operation

Class AB

Frequency Range

10 to 5000 KHz

Rated Power Output

200 Watts

Saturated Power Output

➤ 300 Watts

Power Gain

53 dB nominal

Gain Flatness

+/- 1 dB

Input Power for Rated Output

1.0 mW or 0 dBm

Input Impedance

50 Ω

Output Impedance

50 Ω

Ruggedness

Any load VSWR, any phase from open to Short circuit without damage.

Front Panel Accuracy

+/- 3%

Drive Source Requirements

Any signal Generator, function Generator or oscillator capable of up to 0.7 Vpp into 50 Ω

Protection:

INPUT: unit will withstand up to +13dBm input without damage.

THERMAL: the unit can operate at 45°C ambient. If the internal temperature becomes too high the unit will shut down and an error message will appear on the front panel. The unit may be re-set by cycling the power or from the RS232 input.

MISMATCH: the unit will tolerate any mismatch subject to thermal and current protection.

Accessories Supplied

The unit is supplied with an operations manual and AC line cord.

Temperature Range

0 – 45° C

Cooling

Forced air.

Weight

45 lbs (16 KG)

Dimensions

5.2 x 16.5 x 18.1 (H x W x D)



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