



3100LA POWER AMPLIFIER

100 Watts RF Power For:

- Ultrasonic
- Testing
- Laboratory Use



Featuring:

- 250 KHz – 150 MHz
- Power Measurement
 - Forward & Reflected
- Instantaneous Bandwidth
- Solid State Reliability
- Forced Air Cooling



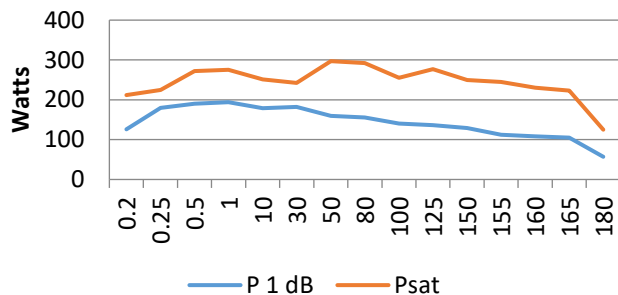
E&I 3100LA Specifications*

Class of Operation:	Class A
Frequency Coverage:	250 KHz – 150 MHz
Rated Power:	100 Watts (P1dB)
Saturated Power:	125 Watts
Power Gain:	50 dB nominal
Gain Flatness:	+/- 1.5 dB
Input Power for Rated Pout:	1 mW
Input Impedance / VSWR:	50 Ω / 1.5:1 maximum
Output Impedance / VSWR:	50 Ω / 2:1 maximum
Harmonic Level:	< -25dBc @ 100 Watts
Ruggedness:	∞ :1 VSWR
Stability:	Unconditional into any passive load
Protection:	Unit will withstand input signal of +13 dBm without damage (1.0 V rms) max.
Third Order Intercept:	IP3 ~ 59 dBm
AC Input:	100 – 240 VAC 47-63 Hz 12 Amps max @ 115 VAC 6.5 Amps @ 240 V
Temperature Range:	0° – 40° C
Cooling:	Forced Air
Dimensions (H x W x D):	5.5 x 18.8 x 21 inches 140.27 x 478(w/handles)x 535 mm
Weight:	35 lbs (16 kg)
Connectors:	N
Rack Mounting:	Optional
RF Input Signal:	AM, FM, SSB, Pulsed

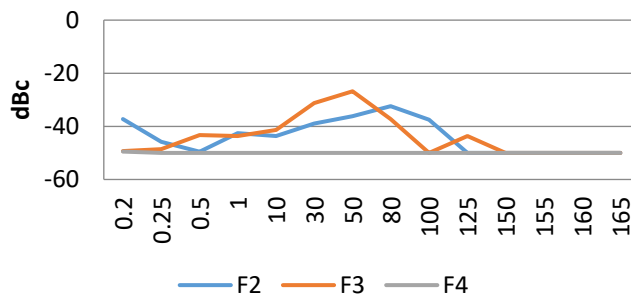


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Power v Frequency



Harmonics at 100 W



Protection:

- Software Overdrive Limit: 150 Watts
- Software Reverse Power Limit: 110 Watts

Performance into 50 ohms

Input				Amplifier Gain Nominal dB	Output			
Input Power		V p-p	V rms		Output Power		V p-p	V rms
Watts	dBm	Volts	Volts		dBm	Watts	Volts	Volts
0.000062	-12.04	0.16	0.06	50	37.96	6.25	50.00	17.68
0.0001	-9.12	0.22	0.08	50	40.88	12.25	70.00	24.75
0.0003	-6.02	0.32	0.11	50	43.98	25.00	100.00	35.36
0.0010	0.00	0.63	0.22	50	50.00	100.00	200.00	70.71



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