

150MHz Very High Frequency

Reliable RF Power For:

- *RFI/EMI Testing*
- *VHF Transmitters*
- *Plasma Equipment*
- *General Laboratory*
- *Nuclear Accelerators*

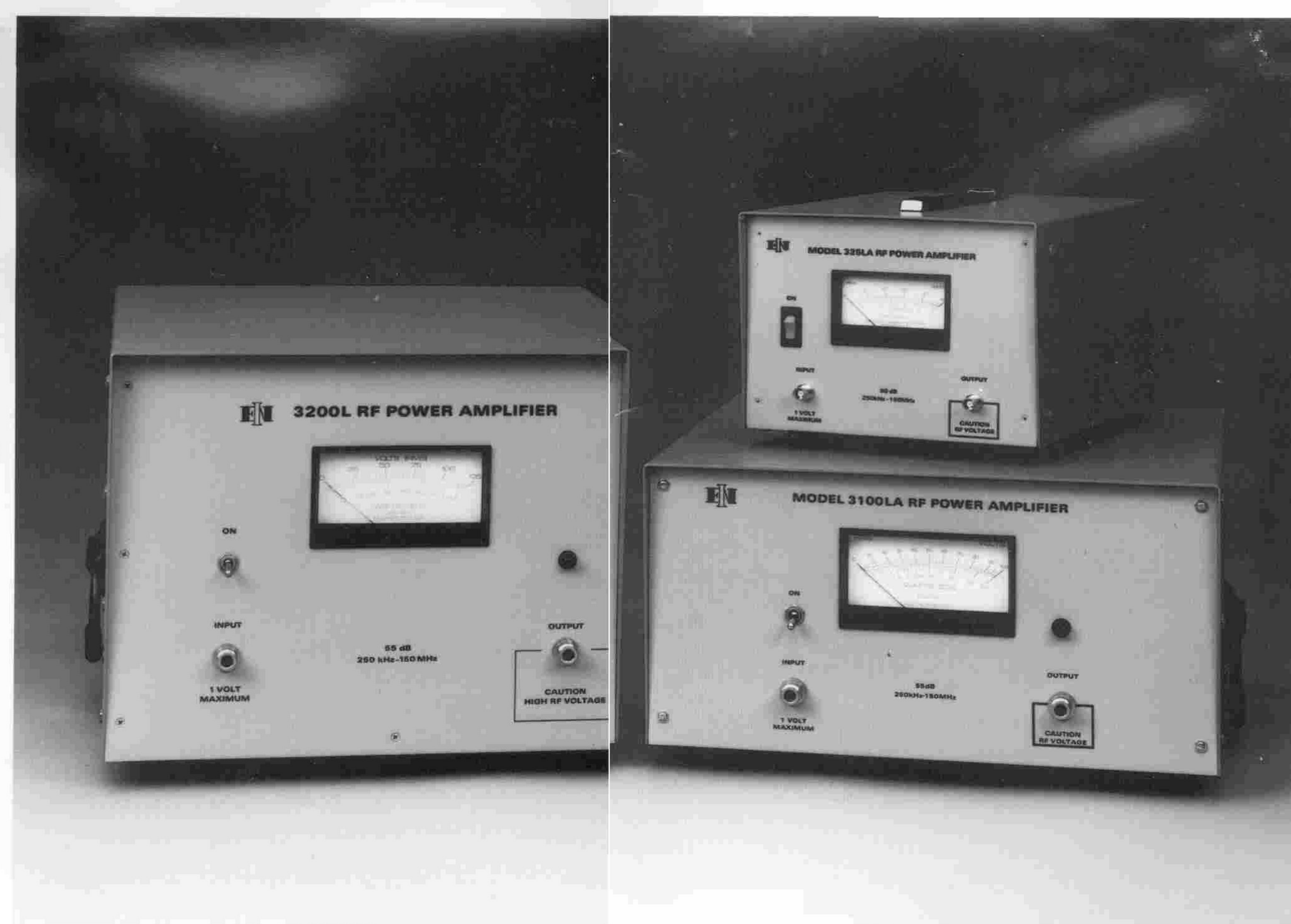
ENI's "300 Series" RF Amplifiers cover the frequency range of 250kHz to 150MHz, with Class A linear power output ranging from 25 to 200 Watts. These three reliable solid state units are primarily designed for HF and VHF transmitters, RFI/EMI testing, nuclear accelerators, plasma equipment, and other VHF applications.

Featuring complete stability and absolute protection against overdrive and overload, the "300 Series" models will amplify inputs of AM, FM, SSB, TV, and other complex modulations limited only by their peak input and bandwidth. Both output RF voltage level and power output into the load are accurately monitored by a built-in front panel meter. Each amplifier is equipped with a regulated power supply and forced-air cooling system.

The 325LA, although it measures only 7.5" H x 9.5" wide x 12.5" deep, delivers a full 25 Watts of linear output power. The 3100LA, rated at 100 Watts, is widely used for RFI/EMI testing. In RF applications where reliability and high power are essential, the versatile Model 3200L, which produces 200 Watts from 250kHz to 120MHz and 175 Watts from 120MHz to 150MHz, has become the amplifier of choice.

Conservative, solid state design reduces size and weight and simplifies maintenance and service. ENI's unique hybrid combining of power amplifier modules effectively prevents a total loss of power by coupling the outputs of a number of transistors to produce the total output. Should any individual transistor fail to operate, the amplifier will continue to operate at reduced power.

The 325LA, 3100LA, and 3200L reflect ENI's continuing commitment to provide very high frequency amplifiers of the highest quality and durability.



POWER	25W	100W	175/200W
Model	325LA	3100LA	3200L
Gain (Nominal)	50dB ±1.5dB	55dB ±1.5dB	55dB ±1.5dB
AC Power Line (50-60Hz)	100-115 VAC ±8% at 3.5 A; 200-230 VAC ±8% at 1.75 A	115 VAC ±8% at 14 A; 230 VAC ±8% at 7 A	115 VAC +6%, -12% at 25 A; 230 VAC +6%, -12% at 12.5 A
Power Output Meter	0-50V, 0-50W	0-100V, 0-200W	0-125V, 0-300W
Typical 3rd Order Intermodulation Intercept Point	+53dBm	+59dBm	+62dBm
Noise Figure	10dB Max	10dB Max	11dB Max
Size (HxWxD)	7.5 x 9.5 x 12.5" (19.05 x 23.13 x 31.75 cm)	8.75 x 17 x 17" (22.2 x 43.2 x 43.2 cm)	12.25 x 17.125 x 23" (31.1 x 43.5 x 58.4 cm)
Weight	25 lbs (11.3 kg)	60 lbs (27.3 kg)	95 lbs (43.1 kg)
Connectors	Type BNC	Type N	Type N
Operating Temperature	0-45° C	0-45° C	0-40° C

FREQUENCY RANGE 250kHz - 150MHz

INPUT/OUTPUT IMPEDANCE 50Ω

DRIVE SOURCE REQUIREMENTS Any signal generator, function generator, or oscillator capable of 1 milliwatt of output into 50Ω.

INPUT VSWR 1.5:1 maximum

OUTPUT VSWR 2.5:1 maximum

HARMONIC DISTORTION All harmonics more than 23dB below fundamental; lower at reduced output.

STABILITY Continuous operation into any load or source impedance.

PROTECTION Units will withstand a +13dBm input signal (1.0 Volt RMS) for all output load conditions, including short and open circuit loads.

COOLING SYSTEM Forced air

POWER METER ACCURACY 4% of full scale.

RACK MOUNTING 19" adaptors provided