

## SECTION 2

### TECHNICAL SPECIFICATIONS

#### 2.1 TECHNICAL SPECIFICATIONS

The technical specifications for the linear amplifier are defined in Table 2-1.

#### 2.2 SEMICONDUCTORS

The semiconductors are defined in Table 2-2.

**TABLE 2-1.**  
**Technical Specifications.**

POWER OUTPUT:	1000 W PEP or Avg $\pm$ 1dB.
FREQUENCY RANGE:	2-30 MHz (1.6-2 MHz at reduced harmonic specification).
INTERMODULATION DISTORTION*:	2-24 MHz 30 dB 3rd order. 36 dB 5th order. 24-30 MHz 26 dB 3rd order. 30 dB 5th order.  Measured relative to PEP output.
SPURIOUS PRODUCTS:	-60 dB.
HARMONIC FILTERS:	7-Pole elliptic function.
Ranges:	2-3 MHz      8-13 MHz 3-5 MHz      13-20 MHz 5-8 MHz      20-30 MHz  The filters are selected by grounding each filter control line.
DUTY CYCLE:	Rated for continuous services all modes.
DRIVE LEVEL:	100 W nominal.
INPUT IMPEDANCE:	50 ohm VSWR less than 1.5:1.
OUTPUT IMPEDANCE:	50 ohm.
POWER REQUIREMENTS:	28 Vdc negative ground. SSB 30-A avg. voice. FSK 70 A typical.
COOLING:	Dual fans controlled by 60 <sup>0</sup> -C thermostats. (Over-temperature shutoff at 85 <sup>0</sup> C).
CIRCUIT BREAKER:	100 A magnetic.
SIZE (WHD):	48.3 cm x 22.3 cm x 38.9 cm.
WEIGHT:	23.6 kg.
CONTROLS:	Amplifier ON/OFF.
METERING:	Module collector current 50 A (2x). Power output 0-1500 W.