

## SECTION V SPECIFICATIONS

Size . . . . . 6-9/16 in. high, 14-3/4 in. wide, 13-3/4 in. deep (overall).

Weight . . . . . 38 pounds.

Frequency range . . . . . 3.5-29.7 mc, covering all amateur bands. By retuning input coils as necessary, the following general-coverage bands may be covered:

<u>FREQUENCY BAND</u>	<u>TOTAL COVERAGE</u>
3.5 mc	3.4-5.0 mc
7.0 mc	6.5-9.5 mc
14 mc	9.5-16.0 mc
21 mc	16.0-22.0 mc
28 mc	22.0-30.0 mc

Mode . . . . . SSB or CW

Type of Service . . . . . SSB - continuous voice modulation.  
CW - 50-percent duty cycle (continuous key-down conditions not to exceed 30 seconds duration).

Plate power input . . . . . CW - 1000 watts.  
SSB - Nominal PEP input of 1000 watts with speech. Third order distortion products at this level are at least 30 db down from signal.

Drive power requirements . . . . . 70 watts.

Primary power requirements . . . . . 230 volts a-c  $\pm 10\%$ , 3-wire, single phase, at 7.5 amperes max, or 115 volts a-c  $\pm 10\%$  at 15 amperes max, 50-400 cps. Operation from a line frequency other than 50-60 cps requires an auxiliary 60-cps supply for fan motor.

Input impedance . . . . . 52 ohms.

Output impedance . . . . . 52 ohms unbalanced with vswr not to exceed 2 to 1 on the amateur bands.

Noise level . . . . . 40 db down from output signal with 1-kw single-tone input.

Harmonic output . . . . . All harmonics at least 40 db down from output signal.

Vacuum tubes . . . . . Type 811A triodes (4).

Available accessories . . . . . Model 351E-4 mounting plate (Collins part number 522-1482-003). This plate can be used when installing the 30L-1 in an airplane, boat, or similar location requiring a rigid mount. A luggage-type carrying case is also available.