

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.