



BC-340-G

Figure 38. Power Amplifier BC-340-G.

Status: Standard. *Stock No.:* 2C2940. *Reference:* TM 11-801.

Power Amplifier BC-340-G is an amplifier of r-f energy designed to amplify the output of a telegraph transmitter. The transmitter is modulated to conform with telegraph characters and this output will be duplicated in the output of the power amplifier at a much higher level of power.

The power amplifier is designed to operate with an output of 10,000 watts over a frequency range of from 4 to 26.5 mc into a balanced 600-ohm transmission line. The complete equipment is mounted in a large metal cabinet. Associated equipment includes Rectifier RA-2, Water Cooling Unit RU-2, and a 1-kw, r-f exciter, ordinarily Radio Transmitter BC-339. This makes up a complete 10,000-watt transmitter.

TECHNICAL CHARACTERISTICS

FREQUENCY RANGE: 4 to 26.5 mc.
 ANTENNA: Rhombic or other fixed antenna.
 TYPE MODULATION: C-w only.
 FREQUENCY CONTROL: Controlled in exciter transmitter.
 POWER SOURCE: 220-v., 50- to 60-cyc, 3-phase, 28.2-kw, 95% power factor.
 POWER OUTPUT: 10,000 w.
 RANGE: Long.
 NUMBER OF TUBES: 4.

GENERAL APPLICATION

USE: Used with but not part of Radio Transmitter BC-339, Rectifier RA-22, and Water Cooling Unit RU-2.
 TO COMMUNICATE WITH: Long-range, c-w, and radioteletypewriter stations.

INSTALLATION: Fixed station.
 TYPE OF SIGNAL: C-w or frequency shift radioteletypewriter.

PRINCIPAL COMPONENTS

<i>Name</i>	<i>Dimensions (in.)</i>	<i>Weight (lb)</i>
Power Amplifier BC-340-G	83¼ x 49¾ x 42¼	2,370

ASSOCIATED EQUIPMENT

Rectifier RA-2	79¼ x 53¼ x 39¼	3,105
Water Cooling Unit RU-2	45¾ x 42½ x 48	870
Surge tank	29 x 14½ x 35	75

WEIGHT AND VOLUME

	<i>Unpacked</i>	<i>Export pack</i>
Total weight (lb)	6,520	8,486
Total volume (cu ft)		143
Ship tons		3.6