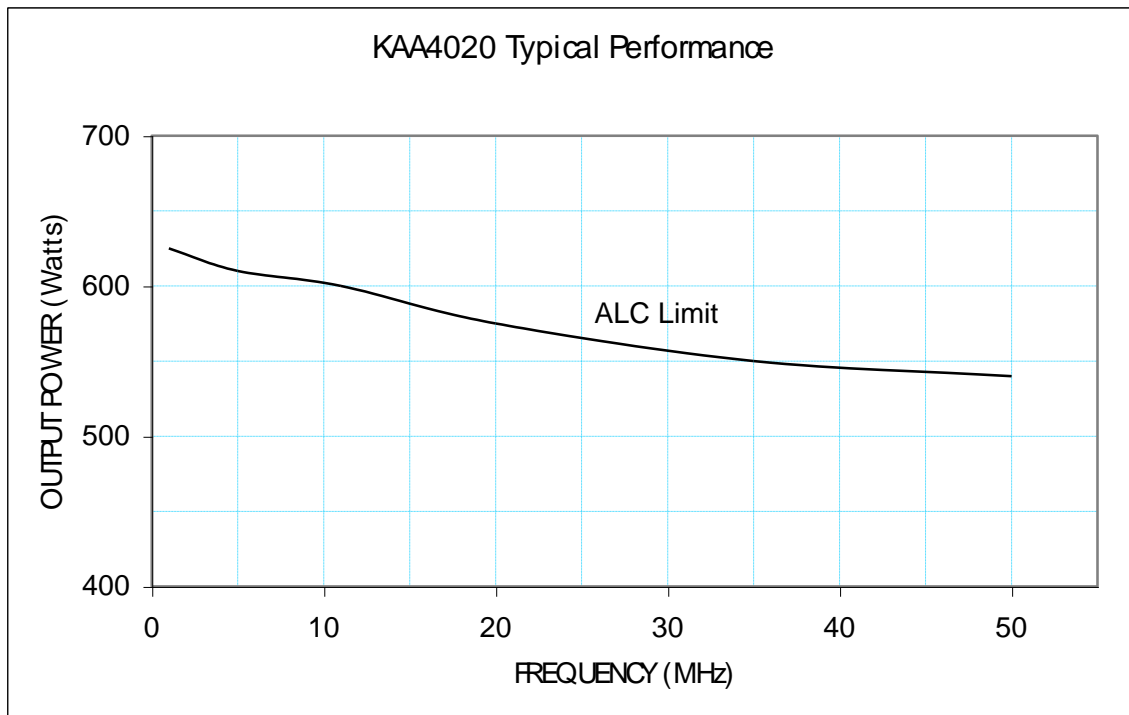


MODEL KAA4020
500 WATTS CW
1 MHz - 50 MHz

The Model KAA4020 is a Class AB wideband RF power amplifier that delivers more than 500 Watts CW power into a 50-Ohm load over the frequency range of 1 MHz to 50 MHz. Power gain is a minimum of 57 dB. GPIB control requires the optional IEEE488.2/RS232 Interface Controller Module.

The system features forward and reflected power indication on a front panel-mounted analog meter; Automatic Level Control (ALC); RF gain control; overdrive protection; full VSWR protection; input blanking, and over-temperature protection. On the basic model these features, plus remote power on/off control, are accessible for hard-wire remote operation through a 25-pin, D-subminiature connector.

The Model KAA4020 is a 19-inch rack-mount unit, 8¾ inches high and 26½ inches deep. Construction is completely modular, and all subassemblies can be readily removed. Forced-air cooling is by a highly reliable, tube-axial fan mounted on the rear panel. The amplifier operates from 187-265 V_{AC}, 47-63 Hz line. The system may be placed in 'stand-by' mode with the BLANKING switch, which greatly reduces energy consumption and heat generation.





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SPECIFICATIONS

RATED POWER OUTPUT	500 Watts
INPUT FOR RATED OUTPUT	1.0 mW maximum
FLATNESS.....	± 1.5 dB maximum unlevelled, ± 0.5 dB leveled
FREQUENCY RESPONSE	1 MHz - 50 MHz instantaneously
GAIN	57 dB minimum
GAIN ADJUSTMENT RANGE.....	30 dB typical
INPUT IMPEDANCE	50 Ohm nominal
OUTPUT IMPEDANCE	50 Ohm nominal
MISMATCH TOLERANCE	infinite
PROTECTION.....	VSWR, over-temperature, overdrive
MODULATION CAPABILITY.....	Will faithfully reproduce AM, FM, or pulse modulation appearing on the input signal
HARMONIC DISTORTION.....	-13 dBc maximum
SPURIOUS OUTPUTS	-70 dBc maximum
FRONT PANEL METER.....	0 - 500 Watt forward power, top scale % limit SET point reflected power, bottom scale
CONTROLS	[AC LINE]ON/OFF, [RF CTRL]ON/OFF (blanking) [METER]FWD/REFL, [ALC]FAST/SLOW (Autom. Level Control) [VSWR]RESET MAN/AUTO, ALC, RF GAIN
INDICATORS	SYSTEM, BLANKING, [METER]MODE, [ALC] MODE, VSWR, TEMP, REMOTE ACTIVE
REMOTE INTERFACE (optional).....	IEEE-488.2 & RS-232
RF CONNECTORS	Type N female
REMOTE CONTROL	IEEE488.2: 24-pin female, RS-232: 25- pin D-Subminiature female
REMOTE INTERLOCK	BNC female
OPERATING TEMPERATURE	-10 to 40 °C
COOLING.....	Forced air (self contained fans)
PRIMARY POWER	187 - 265 V _{AC} , 47 - 63Hz, single-phase, 1500 VA maximum
SIZE (W x H x D).....	48.3 x 22.2 x 67.3 cm, 19 x 8¾ x 26½ in.
WEIGHT	23.6 kg, 52 lb.

MODEL CONFIGURATIONS

MODEL NUMBER	OPTION
KAA4020	Standard
KAA4020M1	IEEE 488.2/RS232
KAA4020M11	IEEE 488.2/RS232 + Rear Panel BNC Connector

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