

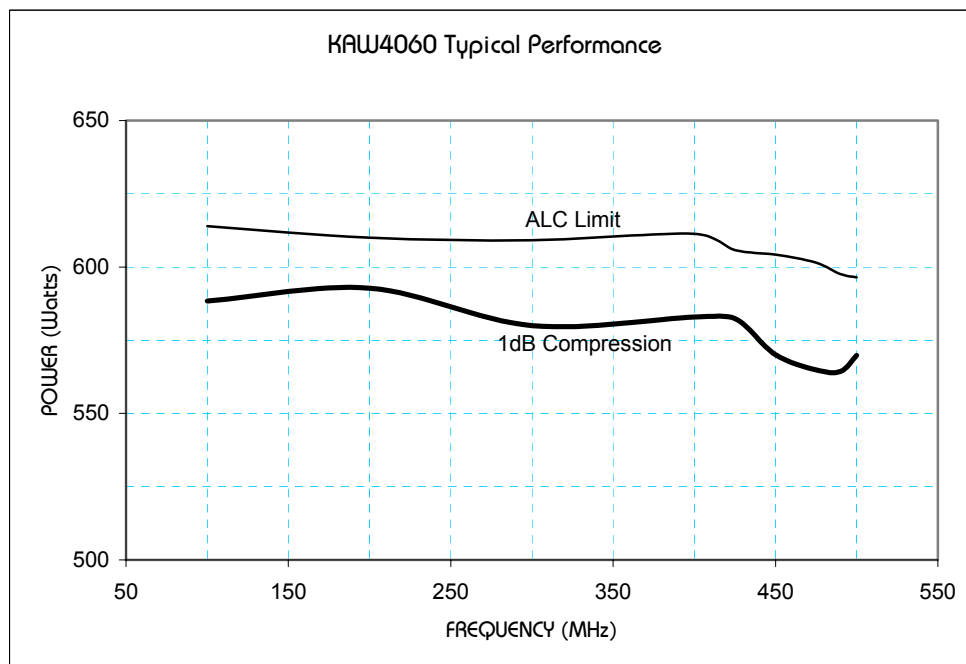
**MODEL KAW4060**  
**500 WATTS CW**  
**100 MHz - 500 MHz**

The Model KAW4060 is a Class AB wideband RF power amplifier system delivering in excess of 500 Watts CW power into a 50-Ohm load over the frequency range of 100 MHz to 500 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. For a detailed description of these features refer to "SPECIAL FEATURES – KAA & KAW-SERIES SINGLE BAND RF POWER AMPLIFIERS".

The system comprises an Amplifier Unit, a Power Controller Unit and a Power Supply Unit. These are installed on telescoping slides into a standard, 19-inch equipment rack, 22 inches wide, 30 inches high, and 31 inches deep. The equipment rack is fitted with heavy-duty swivel casters. Each system component has integral forced-air cooling provided by highly reliable, impeller and/or tube-axial fans.

The Model KAW4060 uses a switching-type power supply module and operates from 187-265 V<sub>AC</sub>, 47-63 Hz line. Power consumption is 3.0 kVA maximum. The system may be placed in 'stand-by' mode with the BLANKING switch, which greatly reduces energy consumption and heat generation.



## SPECIFICATIONS

### Model KAW4060

RATED POWER OUTPUT .....	500 Watts
INPUT FOR RATED OUTPUT .....	1.0 mW maximum
POWER OUTPUT @ 1dB COMPRESSION .....	500 Watts minimum
FLATNESS .....	$\pm 2.0$ dB maximum unleveled, $\pm 0.5$ dB leveled
FREQUENCY RESPONSE .....	100 MHz - 500 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 .....	-23 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 <sub>r</sub> , 47 - 63Hz, single-phase, 3.0 kVA maximum
SIZE (W x H x D) .....	55.9 x 76.2 x 78.7 cm, 22 x 30 x 31 in.
WEIGHT .....	109 kg, 240 lb.

## MODEL CONFIGURATIONS

MODEL NUMBER	OPTIONS
KAW4060	Standard
KAW4060M1	IEEE488.2/RS232