

MODEL KAW2200
300 WATTS CW
100 MHz - 500 MHz

The Model KAW2200 is a Class AB wideband RF power amplifier system delivering in excess of 300 Watts CW power into a 50-Ohm load over the frequency range of 100 MHz to 500 MHz. Power gain is a minimum of 55 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 and a Power Controller/Supply Unit.

The Model KAW2200 uses a switching-type power supply module and operates from 187-265 V_{AC}, 47-63 Hz line. Power consumption is 1.8 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 KAW2200

RATED POWER OUTPUT	300 Watts
INPUT FOR RATED OUTPUT	1.0 mW maximum
POWER OUTPUT @ 1dB COMPRESSION.....	300 Watts minimum
FLATNESS	± 2.0 dB maximum unleveled, ± 0.5 dB leveled
FREQUENCY RESPONSE.....	100 MHz - 500 MHz instantaneously
GAIN	55 dB minimum
GAIN ADJUSTMENT RANGE.....	20 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	-20 dBc maximum
SPURIOUS OUTPUTS.....	-70 dBc maximum

FRONT PANEL METER	0 - 300 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	180 - 265 V _r , 47 - 63Hz, single-phase, 1.8 kVA maximum
SIZE (W x H x D)	48.3 X 30.5 X 68.6 cm, 19 X 12.25 X 27 in.
WEIGHT	33kg, 72 lb.

MODEL CONFIGURATIONS

MODEL NUMBER	OPTION
KAW2200	Standard
KAW2200M1	Standard w/IEEE488.2/RS232

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