FLEX-5000A Specifications:

General

Rx Frequency Range:
10 kHz - 65 MHz (operating – requires external, customer provided filters below 1.8 MHz to eliminate images)
160 - 6 m (specified performance in Amateur bands only)

Transmitter Frequency Range:
160 - 6 m (Amateur bands only)

Frequency Stability:
±0.5 ppm 32 °F to 122 °F (0 °C to +50 °C)

Operating Temperature Range:
14 °F to 122 °F (–10 °C to +50 °C)

Emission Modes:
A1A (CW), A3E (AM), J3E (LSB, USB), F3E (FM), F1B (RTTY), F1D (PACKET), F2D (PACKET)

Frequency Steps:
1Hz minimum

Antenna Impedance:
50 Ohms, unbalanced
6 - 1000 Ohms, unbalanced (With Optional Tuner ON, 160 - 10 m Amateur bands)
16 - 150 Ohms, unbalanced (With Optional Tuner ON, 6 m Amateur band)

Power Consumption:
Rx 1.5A (typ.); Tx (100 W) 25A (max.)

Supply Voltage:
DC: DC 13.8 V ± 10%

Negative Ground Transmitter output specified at 13.8VDC

Maximum Interconnect Cable Length:
Firewire - 10 feet (3m),

No restriction on DC power cable within voltage tolerance limits under load.

Special EMI/RFI Requirements:
CE Compliance Cable Requirements:
1 snap on ferrite bead on DC power cable (supplied)
2 snap on ferrite beads on FireWire cable (supplied)
1 snap on ferrite bead on FlexWire cable
All beads to be located adjacent to rear panel of radio.
Dimensions:
(WxHxD): 9.25” x 9.0” x 12.4” (23.5cm x 22.1 cm x 31.6 cm)
Weight:
(approx.): 13 lbs (5.9 kg)

Transmitter Specifications

Power Output:
1 - 100 watts PEP CW and SSB at 13.8VDC input voltage
25 watts AM carrier
Emission Modes Types:
A1A (CWU, CWL), J3E (USB, LSB), A3E (AM), F3E (FM), DIGITAL
Harmonic Radiation:
Better than –55 dB (160 - 10m Amateur bands)
Better than –65 dB (6m Amateur band)
SSB Carrier Suppression:
At least 55 dB below peak output
Undesired Sideband Suppression:
At least 55 dB below peak output
Audio Response (SSB):
Flat Response 10 Hz to 20 kHz,
3-band or 10-band Software Equalizer
3rd-order IMD:
Better than –33 dB below PEP @14.2MHz 100 watts PEP
Microphone Impedance:
600 Ohms (200 to 10k Ω)
Balanced Line In Impedance:
600 Ohms (200 to 10k Ω)
Receiver Specifications

Circuit Type:
Direct conversion, low IF

Intermediate Frequency:
Software selectable from DC to 20kHz (9 kHz default)

MDS:
14 MHz Preamp off/on: 1.3/0.3 µV;
MDS (typ): -123 dBm/-133 dBm in 500 HzBW

IP3:
+30 dBm at 14 MHz with preamp off at 2 kHz or less tone spacing (S5 IM3 method)

Selectivity (–6/-60 dB):
CW 500 Hz –6/-60 dB: 500/640
SSB 2.4 kHz –6/-60 dB: 2.39/2.54
AM 6.6 kHz –6/-60 dB: 6.60/6.74

Image Rejection:
70 dB or better (160 - 6m Amateur bands)

Specifications are subject to change without notice or obligation, and specifications are guaranteed only within the amateur radio bands.