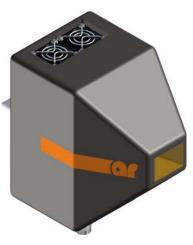


Features

The Model AA18G26 is a solid-state, air-cooled, broadband field generating system designed for applications where low-level, highfrequency fields are required. Included is a tripod-mountable amplifier/antenna field generating unit.

The Model AA18G26, when used with an external signal generator, will provide a minimum of 20 V/m or 50 V/m field strength at a distance of 1 meter. The AA1000 is recommended for providing DC power, RF signal routing and fault detection to the AA18G26. The AA18G26 is protected from over-temperature through forcedair cooling.



Specifications

RATED FIELD STRENGTH: Minimum 20 V/m or 50 V/m at 1 meter antenna distance

MAXIMUM AMPLIFIER INPUT: +10 dBm max

FREQUENCY RESPONSE: 18–26.5 GHz instantaneous

3dB BEAMWIDTH:

AA18G26-20: E Plane: 17.5 degrees H Plane: 17.8 degrees AA18G26-50: E Plane: 8.1 degrees H Plane: 9.5 degrees

3dB SPOT SIZE @ 1m:

AA18G26-20: 0.31m x 0.31m AA18G26-50: 0.14m x 0.17m

MODULATION CAPABILITY: Will faithfully reproduce AM, FM, or Pulse modulation appearing on input signal.

SPURIOUS: Minus 65 dBc typical

PRIMARY POWER (Supplied by AA1000): 8 VDC @ 6 Amps max, +24VDC @ 1 Amp max

CONNECTORS:

RF Input: 2.92 mm (K-type) female DC Input: Twinax

COOLING: Forced air (self contained fans)

WEIGHT: AA18G26-20: 2.5kg (5.5lb) AA18G26-50: 2.7kg (6lb)

SIZE ($W \times H \times D$):

AA18G26-20: 12.1cm x 18.4cm x 17.8cm (4.75in x 7.25in x 7in) AA18G26-50: 12.1cm x 18.4cm x 35.6cm (4.75in x 7.25in x 14in)

ENVIRONMENTAL:

Operating Temperature: 5°C/+40°C Operating Altitude: up to 2000M Shock and vibration: Normal Truck Transport

REGULATORY COMPLIANCE:

EMC EN 61326-1 Safety UL 61010-1 CAN/CSA C22.2 #61010-1 CENELEC EN 61010-1 RoHS DIRECTIVE 2011/65/EU WEEE DIRECTIVE 2012/19/EU

EXPORT CLASSIFICATION: EAR99

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AR RF/Microwave Instrumentation 160 School House Rd Souderton, PA 18964 215-723-8181

AA18G26

• 2 Watt CW

• 18-26.5 GHz

test distance

• CE, RoHS and WEEE compliant

• 20 V/m & 50 V/m

min field strength

options @ 1 meter

For an applications engineer call:800.933.8181

www.arworld.us

ISO 9001 Certified

Ordering Options

Page 2

AA18G26

- 2 Watt CW
- 18–26.5 GHz
- 20 V/m & 50 V/m min field strength options @ 1 meter test distance
- CE, RoHS and WEEE compliant

AA18G26	-
Model	Field Strength



Contact your AR RF/Microwave Instrumentation Sales Associate for specific model configuration pricing.