



产品手册

仪器型号:	250U1000A	

西安安泰测试科技有限公司 仪器维修|租赁|销售|测试

地址:西安市高新区纬二十六路 369 号

网址: www.agitekservice.com

电话: 400-876-5512

座机: 029-88827159



250U1000A

- 250 watts CW
- 10kHz-1000MHz
- Class A
- Portable
- Full VSWRtolerant
- CE & RoHS Compliant
- High Efficiency

Features

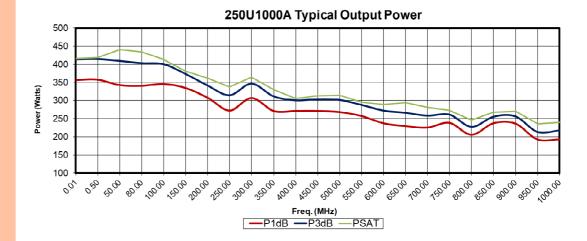
The Model 250U1000A is a solid-state, self-contained, air-cooled, broadband amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. Available in a stylish, contemporary cabinet for benchtop use or with cabinet removed for rack mounting.

The Model 250U1000A, when used with a sweep generator, will provide a minimum of 250 watts of RF power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 250U1000A is protected from RF input overdrive by an RF input leveling circuit which controls the RF input level to the RF amplifier first stage when the RF input level is increased above OdBm. The RF amplifier stages are protected from over-temperature by removing the DC voltage to them if an over-temperature condition occurs due to cooling blockage or fan failure. The Model 250U1000A is equipped with a Digital Control Panel (DCP) which provides both local and remote control of the amplifier. The DCP uses a color LCD

touch screen display to indicate the operate status and fault conditions if an overtemperature or power supply fault has occurred. The unit can be returned to operate when the condition has been cleared.

All amplifier control functions and status indications are available remotely through the included Remotes Package. The Remotes Package includes GPIB/IEEE-488 format, RS-232 hardwire and fiber optic, USB, and Ethernet. The bus interface connector is located on the back panel and positive control of local or remote operation is assured by a Local/Remote switch on the front panel of the amplifier. Also included with the Remotes Package is a safety interlock circuit for use with external safety switch interlocks. This circuit prevents the amplifier from going into operate mode unless the external connection is made. A jumper plug is provided for cases where this functionality is not needed.

The export classification for this equipment is EAR99.



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For an applications engineer call: 800.933.8181

www.arworld.us

ISO 9001 Certified

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250U1000A

- 250 watts CW
- 10kHz-1000MHz

INPUT FOR RATED OUTPUT (0dBm): 1.0 mW maximum

RATED OUTPUT POWER: 0.01 -700MHz: 280 watts typical, 250 watts minimum 700 -1000MHz: 225 watts typical, 210 watts minimum

POWER OUTPUT @ 3dB COMPRESSION:

Specifications

0.01 -700MHz: 270 watts typical, 240 watts minimum 700 -1000MHz: 225 watts typical, 190 watts minimum

POWER OUTPUT @ 1dB COMPRESSION:

0.01 -700MHz: 240 watts typical, 200 watts minimum 700 - 1000MHz: 225 watts typical, 175 watts minimum

FLATNESS: ±1.5 dB typical, ±2.0 dB maximum

FREQUENCY RESPONSE: 10kHz-1000MHz instantane-

ously

GAIN (at maximum setting): 54 dB minimum

GAIN ADJUSTMENT (Continuous Range): 20 dB mini-

mum

INPUT IMPEDANCE: 50 ohms, VSWR 2.0:1 maximum

OUTPUT IMPEDANCE: 50 ohms nominal

MISMATCH TOLERANCE: Will operate without damage or oscillation when connected to any load impedance without the aid of foldback circuitry.

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

THIRD ORDER INTERCEPT: 62 dBm typical

NOISE FIGURE: 8.5 dB typical

HARMONIC DISTORTION: Minus 20 dBc maximum at 200 watter minus 20 dBc twicel at 250 watter

200 watts; minus 20 dBc typical at 250 watts

SPURIOUS: Minus 73 dBc typical

PRIMARY POWER: 100-240 VAC, 50/60Hz, 1150 watts

CONNECTORS: RF Input: N female RF Output: N female

REMOTES PACKAGE:

IEEE-488: 24-pin female

RS-232: 9-pin subminiature D (female) Fiber optic: ST Conn Tx and Rx RS-232

USB 2.0: Type B Ethernet: RJ-45

Safety Interlock: 15-pin subminiature D
COOLING: Forced air (self contained fans)

ACCOUSTICAL NOISE @ 1 METER

Front: 42 dBA Side: 46 dBA Rear: 57 dBA

WEIGHT:

With Cabinet 58.9 kg (130 lbs)
Without Cabinet 46.2 kg (102 lbs)

SIZE (W x H x D): 19" 6U Rack:

With cabinet: $50.3 \times 28.0 \times 74.9 \text{ cm}$ (19.8 x 11.2 x 29.5

in)

Without Cabinet: 48.3 x 27.9 x 74.9 cm (19 x 11.0 x

29.5 in)

ENVIRONMENTAL:

Operating Temperature: 5°C / +40°C Storage Temperature: -20°C/ +50°C Operating Altitude: Up to 2000M

Shock and vibration: Normal Truck Transport

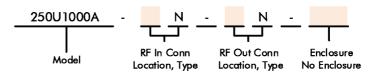
REGULATORY COMPLIANCE:

EMC EN 61326-1 Safety UL 61010-1

> CAN/CSA C22.2 #61010-1 CENELEC EN 61010-1

Rohs Directive 2011/65/EU **EXPORT CLASSIFICATION:** EAR99

Ordering Options



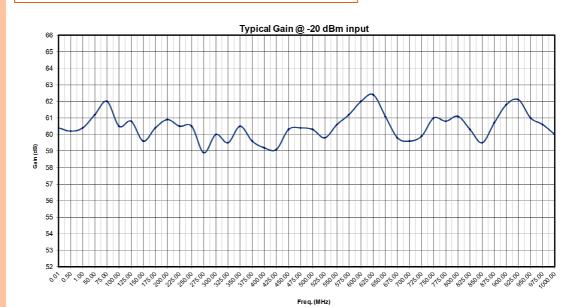
CONNECTOR LOCATION		ENCLOSURE	
Front	F	Enclosure	Е
Rear	R	No Enclosure	NE

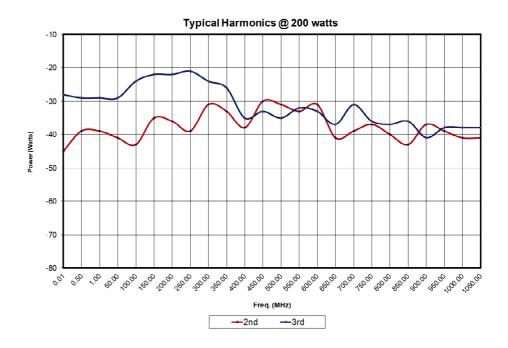
Contact your AR RF/Microwave Instrumentation Sales Associate for specific model configuration pricing.

250U1000A

Graphs

- 250 watts CW
- 10kHz-1000MHz



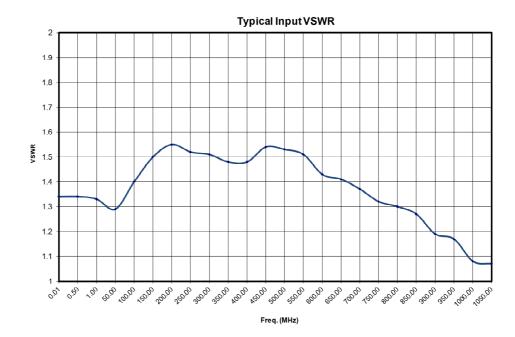


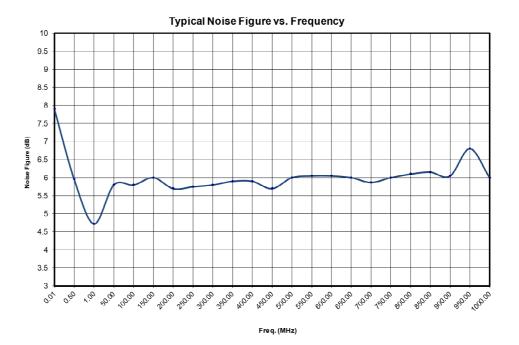
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Envelope Drawing

