



产品手册

	150U1000	
•		
_		

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

仪器型号

电话: 400-876-5512

座机: 029-88827159



150U1000

- 150 watts CW
- 10kHz-1000MHz
- Class A
- Portable
- Full VSWR-tolerant
- CE & RoHS Compliant
- High Efficiency

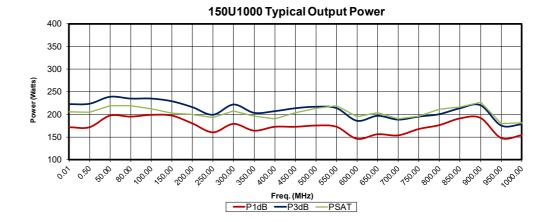
Features

The Model 150U1000 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 150U1000, when used with a sweep generator, will provide a minimum of 150 watts of RF power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 150U1000 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 150U1000 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 over-temperature 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.



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

For an applications engineer call: 800.933.8181

www.arworld.us

ISO 9001 Certified

Page 2

150U1000

- 150 watts CW
- 10kHz-1000MHz

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

0.01 – 1000MHz: 170 watts typical, 150 watts minimum

POWER OUTPUT @ 3dB COMPRESSION:

Specifications

0.01 – 1000MHz: 170 watts typical, 150 watts minimum

POWER OUTPUT @ 1dB COMPRESSION:

0.01 – 1000MHz: 140 watts typical, 125 watts minimum

FLATNESS: ±1.5 dB typical, ±2.0 dB maximum

FREQUENCY RESPONSE: 10kHz-1000MHz instantane-

ously

GAIN (at maximum setting): 52 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: 58 dBm typical

NOISE FIGURE: 8.5 dB typical

HARMONIC DISTORTION: Minus 20 dBc maximum at

125 watts; minus 20 dBc typical at 140 watts

SPURIOUS: Minus 73 dBc typical

PRIMARY POWER: 100-240 VAC, 50/60Hz, 900 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

n)

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

29.5 in)

RoHS

ENVIRONMENTAL:

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

Shock and vibration: Normal Truck Transport

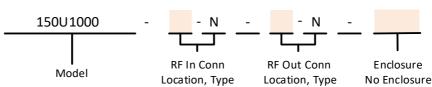
REGULATORY COMPLIANCE:

EMC EN 61326-1 Safety UL 61010-1

> CAN/CSA C22.2 #61010-1 CENELEC EN 61010-1 DIRECTIVE 2011/65/EU

EXPORT CLASSIFICATION: EAR99





CONNECTOR LOCATION		
Front	F	
Rear	R	

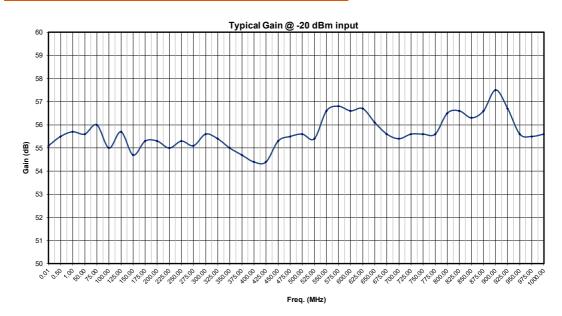
ENCLOSURE			
Enclosure	E		
No Enclosure	NE		

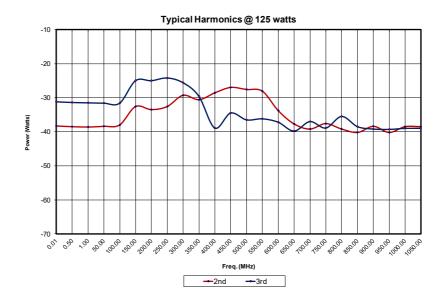
Contact your AR RF/Microwave Instrumentation Sales Associate for specific model configuration pricing.

Graphs

150U1000

- 150 watts CW
- 10kHz-1000MHz

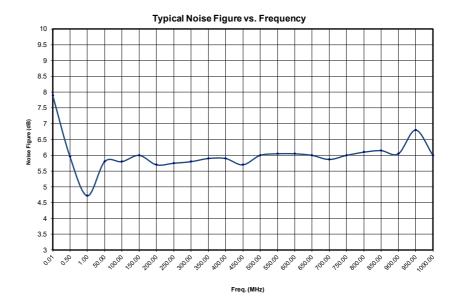


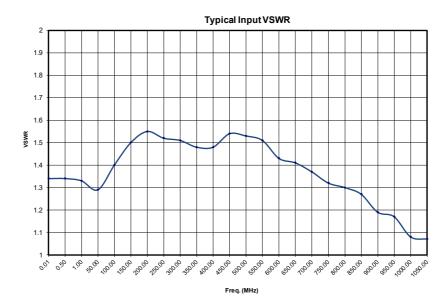


Graphs

150U1000

- 150 watts CW
- 10kHz-1000MHz





Page 5

150U1000

- 150 watts CW
- 10kHz-1000MHz

Envelope Drawing

