

Features

1200A225

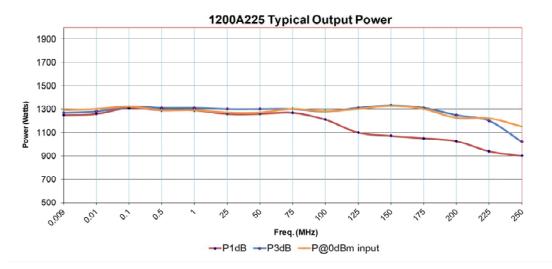
- 1200 Watts CW
- 10kHz-225MHz
- Class A
- Portable
- Full VSWRtolerant
- CE & RoHS Compliant

The Model 1200A225 is a solid-state, selfcontained, broadband amplifier designed for applications where instantaneous bandwidth, high gain and linearity are required. The amplifier is air-cooled using internal selfcontained liquid cooling for high performance and reliability. A stylish, contemporary enclosure allows for easy portability.

The Model 1200A225, when used with a sweep generator, will provide a minimum of 1200 watts of RF power. Included is a front panel gain control which permits the operator to conveniently set the desired output level. The 1200A225 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 1200A225 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 keyswitch 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



Specifications

RATED OUTPUT POWER:

Typical: 1300 watts, min 1200 watts, .01-100MHz Typical: 1200 watts, min 1100 watts, 100-225MHz

1200 Watts CW
10kHz-225MHz

1200A225

INPUT FOR RATED OUTPUT: 1.0 mW Max

POWER OUTPUT @ 3dB COMPRESSION: Typical: 1300 watts, min 1200 watts, .01-100MHz Typical: 1200 watts, min 1100 watts, 100-225MHz

POWER OUTPUT @ 1dB COMPRESSION: Typical: 1250 watts, min 1100 watts, .01-100MHz Typical: 1050 watts, min 800 watts, 100-225MHz

FLATNESS: ±2.0 dB typical, ±2.5 dB maximum

FREQUENCY RESPONSE: 10kHz-225 MHz instantaneously

GAIN (at maximum setting): 61.8 dB minimum

GAIN ADJUSTMENT (Continuous Range): 20 dB

INPUT IMPEDANCE: 50 ohms, VSWR 1.5:1 maximum

OUTPUT IMPEDANCE: 50 ohms nominal

MISMATCH TOLERANCE: 100% of rated power without foldback up to 6.0:1 mismatch, above which may limit to 600W reflected power.

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

THIRD ORDER INTERCEPT: 78 dBm typical

NOISE FIGURE: 8.5 dB typical

HARMONIC DISTORTION: Minus 30 dBc typical, minus 20 dBc maximum at 750 watts

SPURIOUS: Minus 70 dBc typical

PRIMARY POWER: 200-240 VAC single-phase, 50/60Hz, 4.6 kWatts

CONNECTORS:

RF Input: N female RF Output: 7/16 DIN female

REMOTES PACKAGE:

24-pin female
9-pin subminiature D (female)
ST Conn Tx and Rx RS-232
Туре В
RJ-45
15-pin subminiature D

COOLING: Forced air, internal self-contained liquid

WEIGHT: 139 kg (305 lbs)

SIZE (W x H x D): 56.1 x 115 x 88.9 cm (22.1 x 45.25 x 35 in)

ENVIRONMENTAL:

Operating Temperature: $5^{\circ}C / +40^{\circ}C$ Operating Altitude: Up to 2000M Shock and vibration: Normal Truck Transport

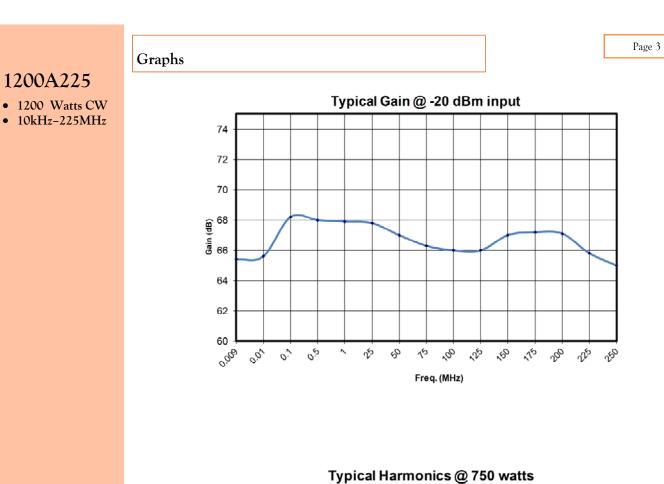
REGULATORY COMPLIANCE:

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

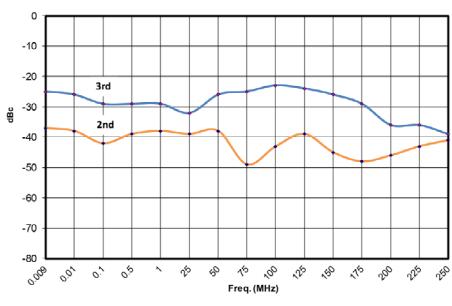
Ordering Options 1200A225 - N - 716 RF In Conn Model RF In Conn Location, Type CONNECTOR LOCATION Front F Rear R

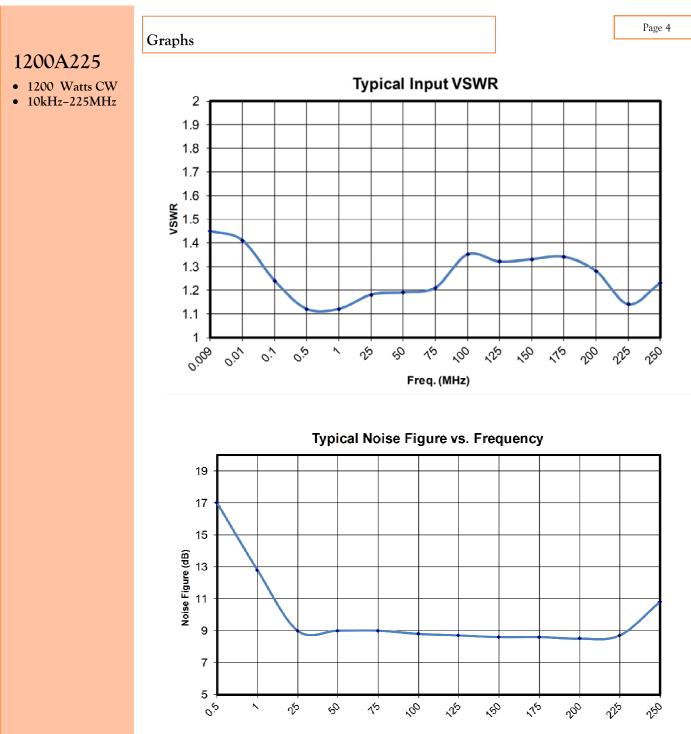
Contact your AR RF/Microwave Instrumentation Sales Associate for specific model configuration pricing.



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Freq. (MHz)

1200A225

- 1200 Watts CW
- 10kHz-225MHz •

