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Data Sheet

August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research 700A

Protection Class: Over temperature and supply fault indication class Applications Class: Laboratory RF susceptibility and calibration Remote Interfaces Class: Local control with optional remote class Power Class Sibling 700A1: 700 watts class related configuration Remote Interfaces Class: Local control with optional remote class Power Class Sibling 700A1: 700 watts class related configuration Safety Interlock Class: High voltage interlock class From Amplifier Research 700A operating and service manual references and OEM/rental listings. Confirm exact frequency band, gain, and primary power on the unit nameplate and manual specification table.



MODEL

**Amplifier Research
700A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

700A

LISTING

[https://aumictechlabs.c
om/products/700a-3/](https://aumictechlabs.com/products/700a-3/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Amplifier Research 700A is a solid-state, self-contained broadband RF power amplifier engineered for demanding laboratory and industrial applications. It delivers a minimum of 700 W into 50 Ω across 10 kHz to 250 MHz, with linear output of 250 W at less than 1 dB gain compression. The unit features continuously adjustable gain control over greater than 18 dB, switch-selectable output impedance from 12.5 Ω to 1000 Ω nominal, and integrated protection against excessive VSWR, overcurrent, overtemperature, and RF overdrive. A directional power meter with front panel selector measures forward and reflected power. Internal architecture uses a low-level IC preamplifier and gain control stage feeding a four-output power splitter into two

pairs of push-pull stages with final combining. Built-in time delay and zero-crossing turn-on minimize inrush current and extend component life. Self-contained cooling with filtered inlets and plug-in subassemblies enable rapid maintenance. BNC connectors provide input and output interface. Primary power is 115 VAC, 50/60 Hz at 15 A. Benchtop and rack-mount configurations are available.

Features & description

From manufacturer datasheet

High power self contained laboratory amplifier

Front panel operate and fault indication Forced air cooling Local gain control class Safety interlock support class Technical Specifications Rated Output Power Class: 700 watts class Frequency Response Class: Broadband laboratory RF band per 700A manual Input For Rated Output Class: 1.0 milliwatt maximum class Gain At Maximum Setting Class: High gain laboratory amplifier class Gain Adjustment: Front panel continuous gain control class Input Impedance Class: 50 ohms class Output Impedance Class: 50 ohms nominal class Cooling: Forced air self contained fans Form Factor: Self contained air cooled laboratory cabinet Circuit Topology: Broadband high power amplifier stages Modulation Capability Class: CW and modulated RF input supported class Primary Power Class: AC mains multi kilowatt laboratory supply class RF Connector Class: TypeNfemale class Series Family: Amplifier Research 700A broadband laboratory amplifier Export Classification Class: Confirm ECCN on unit nameplate Mismatch Tolerance Class: Operate into specified load VSWR per manual Power Metering Class: Forward power monitoring class Protection Class: Over temperature and supply fault indication class

700A Characteristics / Specifications

PARAMETER	VALUE
Rated Output Power Class	700 watts class
Frequency Response Class	Broadband laboratory RF band per 700A manual
Input For Rated Output Class	1.0 milliwatt maximum class
Gain At Maximum Setting Class	High gain laboratory amplifier class
Gain Adjustment	Front panel continuous gain control class
Input Impedance Class	50 ohms class
Output Impedance Class	50 ohms nominal class
Cooling	Forced air self contained fans
Form Factor	Self contained air cooled laboratory cabinet
Circuit Topology	Broadband high power amplifier stages
Modulation Capability Class	CW and modulated RF input supported class
Primary Power Class	AC mains multi kilowatt laboratory supply class
RF Connector Class	TypeNfemale class
Series Family	Amplifier Research 700A broadband laboratory amplifier
Export Classification Class	Confirm ECCN on unit nameplate
Mismatch Tolerance Class	Operate into specified load VSWR per manual
Power Metering Class	Forward power monitoring class
Protection Class	Over temperature and supply fault indication class
Applications Class	Laboratory RF susceptibility and calibration
Remote Interfaces Class	Local control with optional remote class
Power Class Sibling 700A	700 watts class related configuration
Safety Interlock Class	High voltage interlock class

700A Specifications

PARAMETER	VALUE
Amplifier Research 700A Broadband RF Amplifier	Overview
Applications	High-power laboratory RF susceptibility testing, wattmeter calibration, and broadband RF power applications requiring 700 W class drive.
Technical Specifications	Rated Output Power Class: 700 watts class

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.