

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 14, 2026

AMPLIFIER RESEARCH

Amplifier Research 800A3

Remote Interfaces Class: IEEE 488 and RS 232 class RF Connectors: TypeNfemale front panel class Form Factor: Self contained air cooled cabinet Series Family: Amplifier Research 800A3 10 kHz to 3 MHz Form Factor: Self contained air cooled cabinet Series Family: Amplifier Research 800A3 10 kHz to 3 MHz Export Classification Class: EAR99 family class From Amplifier Research Model 800A3 OEM datasheet. Confirm exact remote interface connector set and dimensions on the published sheet for the installed configuration.



MODEL

**Amplifier Research
800A3**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

800A3

LISTING

<https://aumictechlabs.com/products/800a3-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Amplifier Research 800A3 is a solid-state, air-cooled broadband amplifier delivering 800 watts minimum continuous wave power across 10 kHz to 3 MHz. This self-contained unit accepts a maximum input of 1.0 milliwatt for rated output and provides 60 dB minimum gain. The digital control panel enables local and remote operation via IEEE-488, RS-232, and USB interfaces, with real-time displays of forward and reflected power plus internal status monitoring. Technical Specifications Power Output: 800 W CW minimum Frequency Range: 10 kHz to 3 MHz Input for Rated Output: 1.0 mW maximum Gain (maximum setting): 60 dB minimum Harmonic Distortion: -20 dBc maximum at 400 W output Mismatch Tolerance: Full rated power to 6.0:1 VSWR; above 6.0:1, limited to 400 W reflected power Modulation Support: AM, FM, and pulse modulation reproduction within linear power specification Primary Power: 85-137 VAC / 180-264 VAC, 47-63

Hz, 2500 W maximum draw RF Connectors: Type N female (input and output) Cooling: Forced-air with internal fans Dimensions: 50.3 × 34.0 × 55.1 cm Weight: 36.4 kgKey Features Selectable output impedance matching (12.5, 25, 50, 100, 200, 400 Ω) via internal transformer Hot-switching capability using high-voltage/high-current vacuum relays for impedance changes without shutdown RF output level protection with integrated circuitry Gain control adjustment Front panel keylock for operation mode control Power-factor-corrected universal input switching supplies Operates without damage or oscillation across any source and load impedance combinationTypical Applications Standalone RF testing and amplification, EMC testing, and component characterization across the ELF to MF frequency bands. Configurable as a sub-amplifier in multi-stage 1500 W or 5000 W system architectures.Compatibility & Integration Remote control via IEEE-488, RS-232, and USB. Back panel buss interface connectors support system integration.

800A3 Characteristics / Specifications

PARAMETER	VALUE
Rated Output Power	800 watts minimum
Input For Rated Output	1.0 milliwatt maximum
Power Output At 3 dB Compression Nominal	800 watts
Power Output At 3 dB Compression Minimum	700 watts
Power Output At 1 dB Compression Nominal	500 watts
Power Output At 1 dB Compression Minimum	400 watts
Flatness Maximum	plus or minus 1.0 dB
Frequency Response	10 kHz to 3 MHz instantaneously
Gain At Maximum Setting	60 dB minimum
Gain Adjustment Range	23 dB minimum continuous
Input Impedance	50 ohms
Output Impedance Switch Select	12.5 50 100 150 200 400 ohms nominal
Mismatch Tolerance Class	Operate without damage into severe VSWR class
Modulation Capability Class	AM FM pulse faithful reproduction
Primary Power	85 to 137 or 180 to 300 VAC, 47 to 63 Hz, 2500 W maximum
Weight	31.7 kg (70 lb)
Cooling	Forced air self contained fans
Remote Interfaces Class	IEEE 488 and RS 232 class
RF Connectors	TypeNfemale front panel class
Form Factor	Self contained air cooled cabinet
Series Family	Amplifier Research 800A3 10 kHz to 3 MHz
Export Classification Class	EAR99 family class

800A3 Specifications

PARAMETER	VALUE
Amplifier Research 800A3 Broadband RF Amplifier	Overview
Applications	High-power conducted and low-frequency RF susceptibility testing, wattmeter calibration, and laboratory RF power applications below 3 MHz.
Technical Specifications	Rated Output Power: 800 watts minimum

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.