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Data Sheet

August 15, 2026

KALMUS

Kalmus LA500V

Kalmus LA500V 500 W Class AB Linear RF Power Amplifier 10 MHz to 100 MHz The Kalmus LA500V is a 500 W Class AB linear broadband RF power amplifier covering 10 MHz to 100 MHz with approximately 60 dB average gain, VSWR protection, RF gain control, ALC, and a built-in RF power meter. RF immunity and EMC driving, broadband RF power amplification, laboratory high-power RF sources. Manufacturer: Kalmus (Amplifier Research lineage listings) The Kalmus LA500V is a 500 W Class AB linear broadband RF power amplifier covering 10 MHz to 100 MHz with approximately 60 dB average gain, VSWR protection, RF gain control, ALC, and a built-in RF power meter. RF immunity and EMC driving, broadband RF power amplification, laboratory high-power RF sources. Manufacturer: Kalmus (Amplifier Research lineage listings) Instrument Type: Class AB linear RF power amplifier



MODEL	CALIBRATION
Kalmus LA500V	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
LA500V	https://aumictechlabs.com/products/la500v-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Kalmus LA500V is a Class A linear RF power amplifier engineered for critical test, measurement, and communication systems demanding exceptional linearity and stability. This dual-cabinet system delivers 500 W forward power with ± 0.5 dB automatic level control and unconditional stability across all load conditions, including infinite VSWR. Modular construction with removable sub-assemblies enables field maintenance while premium components ensure reliable operation in demanding environments. Technical Specifications Electrical Performance

Class of Operation: Class A linear Gain Flatness: ± 2.0 dB unlevelled; ± 0.5 dB leveled Automatic Level Control: ± 0.5 dB for 10 dB input change Harmonics: -13 dBc minimum Spurious Outputs: -70 dBc (V) minimum, -90 dBc (VM) minimum Duty Cycle: 100% Primary Power Required: 95 to 265 VAC, 47–63 Hz, 2.0 kVA maximum RF Characteristics Input/Output Impedance: 50 Ohms VSWR Tolerance: Withstands infinite VSWR without shutdown Connectors: Type-N female Front Panel Meter: Dual-scale analog (0–500 W forward/reflected power) Key Features Unconditionally stable across all terminations Over-temperature and VSWR protection with status indicators Operating temperature range: -10 to 40 °C Forced-air cooling via tube-axial fans Formed aluminum construction with clear, chemically treated cabinet covers Remote Control & Integration 25-pin D-subminiature connector provides remote control of RF gain, ALC, reflected power set point, AC line and RF control, meter selection, ALC speed, and VSWR reset. Optional IEEE 488.2/RS232 interface module available for system integration. Physical Configuration Two 19-inch rack-mount cabinets: Amplifier module (83" H $\times$ 19" W $\times$ 21.5" D, 74 lb) and Power Supply/Control module (53" H $\times$ 19" W $\times$ 17.5" D, 36 lb).

Features & description

From manufacturer datasheet

Built-in RF power meter

Technical Specifications Model: LA500V Manufacturer: Kalmus (Amplifier Research lineage listings)
Instrument Type: Class AB linear RF power amplifier Frequency Range Minimum: 10 MHz Frequency Range Maximum: 100 MHz Rated Output Power: 500 W minimum Gain: 60 dB average Amplifier Class: Class AB Operation Mode: linear Harmonics: less than -40 dBc Vswr Protection: included Rf Gain Control: included Automatic Leveling: included Built In Rf Power Meter: included Compression: low compression at rated power Bandwidth Type: broadband Primary Application: RF power amplification for EMC and RF test Output Power Class: 500 watt Cooling Expectation: forced-air high-power RF amplifier Front Panel Metering: RF power meter Protection Features: VSWR protection Leveling Feature: ALC automatic leveling Gain Control Feature: RF gain control Lineage Listing Name: Kalmus LA500V / AR catalog listings Notes Frequency span, 500 W rating, gain, harmonics, and feature list from Kalmus LA500V / Amplifier Research product listings summarizing OEM LA500-series amplifier characteristics. Faceplate/calibration certificate may state finer limits.

LA500V Characteristics / Specifications

PARAMETER	VALUE
Model	LA500V
Manufacturer	Kalmus (Amplifier Research lineage listings)
Instrument Type	Class AB linear RF power amplifier
Frequency Range Minimum	10 MHz
Frequency Range Maximum	100 MHz
Rated Output Power	500 W minimum
Gain	60 dB average
Amplifier Class	Class AB
Operation Mode	linear
Harmonics	less than -40 dBc
Vswr Protection	included
Rf Gain Control	included
Automatic Leveling	included
Built In Rf Power Meter	included
Compression	low compression at rated power
Bandwidth Type	broadband
Primary Application	RF power amplification for EMC and RF test
Output Power Class	500 watt
Cooling Expectation	forced-air high-power RF amplifier
Front Panel Metering	RF power meter
Protection Features	VSWR protection
Leveling Feature	ALC automatic leveling
Gain Control Feature	RF gain control
Lineage Listing Name	Kalmus LA500V / AR catalog listings
Bandwidth	Type: broadband

LA500V Specifications

PARAMETER	VALUE
Applications	RF immunity and EMC driving, broadband RF power amplification, laboratory high-power RF sources.
Key Features	500 W minimum rated output
Technical Specifications	Model: LA500V

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	
Specifications	
PARAMETER	VALUE
Model	LA500V
Manufacturer	Kalmus (Amplifier Research lineage listings)
Instrument Type	Class AB linear RF power amplifier
Frequency Range Minimum	10 MHz
Frequency Range Maximum	100 MHz
Rated Output Power	500 W minimum
Gain	60 dB average
Amplifier Class	Class AB
Operation Mode	linear
Harmonics	less than -40 dBc
Vswr Protection	included
Rf Gain Control	included
Automatic Leveling	included
Built In Rf Power Meter	included
Compression	low compression at rated power
Bandwidth Type	broadband
Primary Application	RF power amplification for EMC and RF test
Output Power Class	500 watt
Cooling Expectation	forced-air high-power RF amplifier
Front Panel Metering	RF power meter
Protection Features	VSWR protection
Leveling Feature	ALC automatic leveling
Gain Control Feature	RF gain control
Lineage Listing Name	Kalmus LA500V / AR catalog listings
Notes	
Frequency span, 500 W rating, gain, harmonics, and feature list from Kalmus LA500V / Amplifier Research	

product listings summarizing OEM LA500-series amplifier characteristics. Faceplate/calibration certificate may state finer limits.

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.