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Data Sheet

August 14, 2026

FLUKE

Fluke 5202A Precision Power Amplifier

Automatic standby trip on overrange AC and DC Designed as precision calibration amplifier for 5200A and 5100 class systems General-purpose amplifier use for waveforms from DC to 100 kHz Instrument Family: Fluke 5202A Precision Power Amplifier Designed as precision calibration amplifier for 5200A and 5100 class systems General-purpose amplifier use for waveforms from DC to 100 kHz Instrument Family: Fluke 5202A Precision Power Amplifier Amplifier Type: DC coupled programmable inverting



MODEL

Fluke 5202A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

5202A

LISTING

<https://aumictechlabs.com/products/5202a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fluke 5202A Precision Power Amplifier is a fully programmable instrument for precise amplification and control of AC and DC power signals. It delivers fixed gain of 100 (inverting configuration) with midband stability of 200 PPM over six months, making it ideal for calibration of power measurement instruments and demanding metrology applications. The 5202A provides output voltage to 1100 V AC RMS and ± 1500 V DC, with current capability to 200 mA AC and 100 mA DC, delivering maximum output power of 220 W across its operating bandwidth. Technical Specifications Output Voltage (AC RMS): 1100 V (typical upper limit 1200 V before protective shutdown) Output Voltage (DC): ± 1500 V (typical upper limit ± 1600 V before protective shutdown) Output Current (AC): Up to 200 mA Output Current (DC): Up to 100 mA Maximum Output Power: 220 W Frequency Range: DC to 100 kHz (typical upper limit 120 kHz) Gain: Fixed gain of 100

(inverting amplifier) Midband Amplitude Uncertainty: 420 PPM at 1000 V RMS Midband Stability: 200 PPM over six months Coupling: DC coupled Overload Protection: Automatic sensing and recovery; output returns to zero within 2 microseconds and held for 6 milliseconds upon excessive slew rate, frequency, or momentary output overload Key Features Fully programmable for automated test system integration Wide frequency coverage and low distortion performance Automatic overload protection with fast recovery Inverting configuration with fixed 100× gain Typical Applications Power measurement instrument calibration AC and DC power signal amplification and control Precision electrical measurement and metrology Compatibility & Integration Designed as a general-purpose amplifier for integration with calibration equipment such as the Fluke 5200A Alternating Voltage Calibrator using appropriate software options.

5202A Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	Fluke 5202A Precision Power Amplifier
Amplifier Type	DC coupled programmable inverting
Fixed Gain	100
AC Output Voltage Specified	1100 V RMS
AC Output Current Specified	up to 200 mA
AC Typical Upper Trip	1200 V RMS before standby
DC Output Voltage Specified	plus or minus 1500 V
DC Output Current Specified	up to 100 mA
DC Typical Upper Trip	1600 V
Frequency Range Specified	DC to 100 kHz
Frequency Typical Upper Limit	120 kHz
Maximum Output Power	220 W
Midband Six Month Stability	200 ppm
Midband Amplitude Uncertainty At 1000 V RMS	420 ppm
Related Calibrator Extension	extends 5200A AC calibrator range class
Related 5100 Extension Class	extends load voltage and frequency from 100 V at 1 kHz to 1100 V at up to 50 kHz class
Form Factor	benchtop precision power amplifier
Cooling Class	forced air class
AC Mains Powered	yes
Standby Protection	automatic trip into standby on overrange
Waveform Capability	wide range of waveforms DC to 100 kHz
Series Family	Fluke 5205A precision power amplifier family
Calibration Path	OEM amplifier procedures
Specification Ambient Class	laboratory ambient unless OEM table states otherwise

PARAMETER	VALUE
Ship Weight Class Reported	64 lb class shipping weight on refurbished listings

5202A Specifications

PARAMETER	VALUE
Fluke 5202A Precision Power Amplifier	Overview
Key Features	Fixed gain of 100 DC-coupled programmable inverting amplifier
Automatic standby trip on overrange AC and DC	Designed as precision calibration amplifier for 5200A and 5100 class systems
Technical Specifications	Instrument Family: Fluke 5202A Precision Power Amplifier

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

Numeric rows from Fluke 5202A/5205A Precision Power Amplifier OEM specification summaries published via ArtisanTG and Test Equipment Connection product literature. Confirm exact option codes and trip limits on the unit faceplate and calibration certificate.

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.