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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 87421A Power Supply, 12 VDC, 15 VDC, 25 W

Agilent 87421A Power Supply for Microwave System Amplifiers The Keysight 87421A is a 25 W plus or minus 12 V switching supply for 83006A, 83017A, 83018A, and 87415A microwave system amplifiers. OEM 87421A/87422A technical overview lists +12 V at 2 A, minus 12 V at 200 mA, 0.1 percent line regulation, 2.0 percent load regulation, 25 mV rms ripple, and 90 to 250 Vac input. Remote DC bias of 87415A and 83006/017/018A amplifiers in microwave test systems. 25 W plus or minus 12 V for system amplifiers The Keysight 87421A is a 25 W plus or minus 12 V switching supply for 83006A, 83017A, 83018A, and 87415A microwave system amplifiers. OEM 87421A/87422A technical overview lists +12 V at 2 A, minus 12 V at 200 mA, 0.1 percent line regulation, 2.0 percent load regulation, 25 mV rms ripple, and 90 to 250 Vac input. Remote DC bias of 87415A and 83006/017/018A amplifiers in microwave test systems. 25 W plus or minus 12 V for system amplifiers Instrument Type: DC switching power supply for microwave amplifiers



MODEL

**Agilent / Keysight
87421A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

87421A

LISTING

<https://aumictechlabs.com/products/87421a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 87421A is a universal input DC switching power supply engineered to deliver bias voltages for microwave system amplifiers and high-speed lightwave converters. This compact 25

W unit operates from 90–250 VAC (50/60 Hz) input and provides +12 VDC at 2.0 A primary output with a -12 VDC at 200 mA secondary output. Weighing just 0.9 kg, it integrates into bench and rack-mounted configurations through its included 2-meter DC bias cable terminated with a 3-pin connector and D-subminiature connector (83006-60005) for direct amplifier interface.

Technical Specifications
Primary Output: +12 VDC at 2.0 A
Secondary Output: -12 VDC at 200 mA
Maximum Output Power: 25 W
AC Input: Universal, 90–250 VAC, 50/60 Hz
Line Regulation: 0.1%
Load Regulation (20% to full load): 2.0%
Output Ripple: 25 mV RMS max
Output Noise: 2% peak to peak max
Operating Temperature: 0° to +55° C (full load)
Storage Temperature: -40° to +70° C

Dimensions & Weight: 0.9 kg; see operating manual for mechanical dimensions

Key Features
Overvoltage protection with automatic recovery from short circuit and overload conditions
Low output ripple and noise for sensitive bias applications
Tight line and load regulation across operating range
Compact form factor suitable for system integration or standalone benchtop operation
2-meter interconnect cable included for remote amplifier placement

Typical Applications
Bias supply for microwave system amplifiers and high-speed lightwave measurement modules requiring dual-rail DC bias with minimal ripple and thermal management in laboratory and field environments.

Compatibility & Integration
Designed for use with Keysight 83006A, 83017A, 83018A, 83050A, 83051A, 87415A microwave amplifiers and 83440C high-speed lightwave converter (with 83440-60009 adapter).

87421A Characteristics / Specifications

PARAMETER	VALUE
Model	87421A
Instrument Type	DC switching power supply for microwave amplifiers
Output Plus 12 V	+12 V at 2 A
Output Minus 12 V	minus 12 V at 200 mA
Output Power	25 W
Line Regulation	0.1 percent
Load Regulation	2.0 percent (20 percent to full load)
Output Ripple	25 mV rms max
Output Noise	2 percent peak to peak max
Overvoltage Protection	yes
Short Circuit Protection	current limited; normal operation returns when overload is removed
Ac Input Voltage	90 to 250 Vac, 50/60 Hz
Fuse	1 A slow blow
Weight Net	0.9 kg (2.0 lb)
Weight Shipping	1.8 kg (4.0 lb)
Operating Temperature	0 C to +55 C full load
Storage Temperature	minus 40 C to +70 C
Cable Included	part 83006-60005, 2 m, 3-pin to D-subminiature
Powered Amplifiers	83006A, 83017A, 83018A, and 87415A
Related 87415A Frequency	2 to 8 GHz
Related 87415A Gain	25 dB minimum
Related 87415A Bias	+12 V at 900 mA
Related Higher Power Supply	87422A is 90 W plus or minus 15 V for 83020A

87421A Specifications

PARAMETER	VALUE
Applications	Remote DC bias of 87415A and 83006/017/018A amplifiers in microwave test systems.
Key Features	25 W plus or minus 12 V for system amplifiers
Technical Specifications	Model: 87421A

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to +70 C
Operating temperature	0 C to +55 C full load
Operating Temperature	0 C to +55 C full load
Cable Included	part 83006-60005, 2 m, 3-pin to D-subminiature
Powered Amplifiers	83006A, 83017A, 83018A, and 87415A
Related 87415A Frequency	2 to 8 GHz
Related 87415A Gain	25 dB minimum
Related 87415A Bias	+12 V at 900 mA
Related Higher Power Supply	87422A is 90 W plus or minus 15 V for 83020A Notes Numeric rows from Keysight 87421A/87422A Power Supply Technical Overview, 87421A column. Amplifier bias/frequency rows are the published 87415A fact-sheet figures for the intended load, not additional 87421A outputs.

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	87421A
Instrument Type	DC switching power supply for microwave amplifiers
Output Plus 12 V	+12 V at 2 A
Output Minus 12 V	minus 12 V at 200 mA
Output Power	25 W
Line Regulation	0.1 percent
Load Regulation	2.0 percent (20 percent to full load)
Output Ripple	25 mV rms max
Output Noise	2 percent peak to peak max
Overvoltage Protection	yes
Short Circuit Protection	current limited; normal operation returns when overload is removed
Ac Input Voltage	90 to 250 Vac, 50/60 Hz
Fuse	1 A slow blow
Weight Net	0.9 kg (2.0 lb)
Weight Shipping	1.8 kg (4.0 lb)
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Related Higher Power Supply	87422A is 90 W plus or minus 15 V for 83020A
Notes	
Numeric rows from Keysight 87421A/87422A Power Supply Technical Overview, 87421A column. Amplifier	

bias/frequency rows are the published 87415A fact-sheet figures for the intended load, not additional 87421A outputs.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.