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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent / Keysight 87422A Power Supply, 12 VDC, 15 VDC, 70 W

Agilent 87422A Power Supply for 83020A Amplifier The Keysight 87422A is a 90 W switching supply for the 83020A microwave system power amplifier, with an extra plus or minus 12 V output for a preamp such as 83006A or 83017A. OEM 87421A/87422A technical overview lists +15 V at 4.0 A, minus 15 V at 200 mA, +12 V at 2 A, minus 12 V at 200 mA, 0.1 percent line regulation, 1.0 percent load regulation, and 90 to 240 Vac input. Bias of 83020A power amplifiers plus an optional 83006A/83017A preamp in microwave test systems. The Keysight 87422A is a 90 W switching supply for the 83020A microwave system power amplifier, with an extra plus or minus 12 V output for a preamp such as 83006A or 83017A. OEM 87421A/87422A technical overview lists +15 V at 4.0 A, minus 15 V at 200 mA, +12 V at 2 A, minus 12 V at 200 mA, 0.1 percent line regulation, 1.0 percent load regulation, and 90 to 240 Vac input. Bias of 83020A power amplifiers plus an optional 83006A/83017A preamp in microwave test systems. Additional plus or minus 12 V preamp output



MODEL	CALIBRATION
Agilent / Keysight 87422A	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
87422A	https://aumictechlabs.com/products/87422a-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 87422A is a compact DC power supply engineered to deliver stable, low-ripple power to microwave system amplifiers and preamplifiers. It has multiple regulated output

rails with integrated overvoltage and short-circuit protection, making it suitable for integration into laboratory benchtop setups or rack-mounted test configurations. The unit accepts universal AC input and includes a 2-meter DC output cable for direct connection to compatible RF and microwave instrumentation.

Technical Specifications
AC Input: 90–250 VAC, 50/60 Hz
Total Output Power: 90 W maximum
DC Output Rails: - +15V DC at 4.0 A - -15V DC at 200 mA - +12V DC at 2.0 A - -12V DC at 200 mA
Line Regulation: 0.1% Load Regulation: 1.0% (+15V rail, 20% to full load); 2.0% (+12V rail, 20% to full load)
Output Ripple: 25 mV RMS maximum
Output Noise: 2% peak-to-peak maximum
Operating Temperature: 0° to +55° C at full load
Storage Temperature: -40° to +70° C
Weight: 0.9 kg

Key Features
Current-limited short-circuit and overload protection with automatic recovery on fault removal
Low-ripple design suitable for sensitive RF and microwave amplifier applications
Overvoltage protection on all output rails
Flexible mounting with user-supplied hardware; operates in any orientation
Compact form factor for space-constrained system integration

Typical Applications
Powering microwave system power amplifiers and preamplifier modules
Test and measurement setups requiring multiple isolated DC rails
RF instrumentation requiring clean, regulated DC supplies

Compatibility & Integration
The 87422A directly supports Agilent/Keysight amplifier modules including the 83020A power amplifier and preamplifiers such as the 83006A, 83017A, 83018A, 83050A, and 83051A. It also powers the 83440C high-speed lightwave converter when used with the 83440-60009 adapter. Supplied 2-meter output cable enables straightforward system integration.

87422A Characteristics / Specifications

PARAMETER	VALUE
Model	87422A
Instrument Type	DC switching power supply for microwave amplifiers
Output Plus 15 V	+15 V at 4.0 A
Output Minus 15 V	minus 15 V at 200 mA
Output Plus 12 V	+12 V at 2 A
Output Minus 12 V	minus 12 V at 200 mA
Output Power	90 W
Line Regulation	0.1 percent
Load Regulation	1.0 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 240 Vac, 50/60 Hz
Fuse	T 3.15 A
Weight Net	2.1 kg (4.6 lb)
Weight Shipping	3.2 kg (7.0 lb)
Operating Temperature	0 C to +55 C full load
Storage Temperature	minus 40 C to +70 C
Cable Included	part 83020-60001, 2 m, 15-pin connectors
Powered Amplifier Primary	Agilent 83020A
Powered Preamps	83006A or 83017A on the extra plus or minus 12 V output
Related 87421A	25 W plus or minus 12 V supply for 87415A/83006A/83017A/83018A

87422A Specifications

PARAMETER	VALUE
Agilent 87422A Power Supply for 83020A Amplifier	Overview
Applications	Bias of 83020A power amplifiers plus an optional 83006A/83017A preamp in microwave test systems.
Key Features	90 W plus or minus 15 V for 83020A
Additional plus or minus 12 V preamp output	2 m 15-pin interconnect cable
Technical Specifications	Model: 87422A
Notes	Numeric rows from Keysight 87421A/87422A Power Supply Technical Overview, 87422A column.

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 83020-60001, 2 m, 15-pin connectors
Powered Amplifier Primary	Agilent 83020A
Powered Preamps	83006A or 83017A on the extra plus or minus 12 V output
Related 87421A	25 W plus or minus 12 V supply for 87415A/83006A/83017A/83018A Notes Numeric rows from Keysight 87421A/87422A Power Supply Technical Overview, 87422A column.

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	87422A
Instrument Type	DC switching power supply for microwave amplifiers
Output Plus 15 V	+15 V at 4.0 A
Output Minus 15 V	minus 15 V at 200 mA
Output Plus 12 V	+12 V at 2 A
Output Minus 12 V	minus 12 V at 200 mA
Output Power	90 W
Line Regulation	0.1 percent
Load Regulation	1.0 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 240 Vac, 50/60 Hz
Fuse	T 3.15 A
Weight Net	2.1 kg (4.6 lb)
Weight Shipping	3.2 kg (7.0 lb)
Operating Temperature	0 C to +55 C full load
Storage Temperature	minus 40 C to +70 C
Cable Included	part 83020-60001, 2 m, 15-pin connectors
Powered Amplifier Primary	Agilent 83020A
Powered Preamps	83006A or 83017A on the extra plus or minus 12 V output
Related 87421A	25 W plus or minus 12 V supply for 87415A/83006A/83017A/83018A
Notes	
Numeric rows from Keysight 87421A/87422A Power Supply Technical Overview, 87422A column.	

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.