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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 66312A DC Power Supply

The Keysight/Agilent 66312A is a mobile communications DC source for wireless and battery-powered device test. OEM overview rates main output 0 to 20 V / 0 to 2 A.

Handset/WLAN/Bluetooth manufacturing test, battery drain analysis, and charger simulation.

Fast output response for pulsed digital loads Dynamic measurement digitizer for battery current drain Output Programming Rise Fall: less than 2 ms DC Floating Voltage: plus or minus 50 Vdc from chassis Remote Sensing Drop: up to 3 to 4 V total by model From Agilent 66312A Dynamic Measurement DC Source data sheet: 0 to 20 V / 0 to 2 A.



MODEL

**Agilent / Keysight
66312A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

66312A

LISTING

<https://aumictechlabs.com/products/66312a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 66312A is a 40 W single-output DC power supply engineered for automated test and characterization of digital wireless communication devices. It operates as both precision DC source and dynamic measurement instrument, capturing voltage and current waveforms to characterize pulsed current profiles and peak demand behavior. The supply delivers fast transient response, precise control, and integrated protection across R&D, quality assurance, and manufacturing environments. Technical Specifications Output Characteristics Output Power: 40 W Output Voltage Range: 0 to 20 V Output Current Range: 0 to 2 A Programming Resolution: 12-bit (voltage/current) Load Regulation: 2 mV, 0.5 mA Line Regulation: 0.5 mV, 0.5 mA Ripple and Noise: 0.5 mVrms, 3 mVp-p, 1 mArms Drift: 0.5 mV, 20 μ A Transient Response Time: < 100 μ s Output

Voltage Settling Time: 6 ms Current Sinking Capability: Up to 1 A Dynamic Measurement Capabilities Measurement Resolution: 16-bit Minimum Current Measurement: 2 microamperes Waveform Acquisition: Up to 4096 data points, triggered Sampling Interval: 15.6 μ s to 31,200 s Measurement Bandwidth: Current waveforms to 10 kHz (full range), above 10 kHz in high-current range only Measurement Time: 50 ms average Command Processing Time: 4 ms averageKey Features Over-voltage, over-current, and over-temperature protection Reverse input/diode forward protection 16-bit measurement resolution enables precision characterization of low-current behavior Triggered data acquisition with configurable sampling intervals supports detailed transient analysisTypical Applications Testing and characterization of telecommunications equipment, particularly wireless communication products requiring peak current and pulsed-load analysis.Compatibility & Integration SCPI programming language support GPIB (IEEE-488) and RS-232 interfaces Front-panel keypad and rotary encoder control 14-character vacuum fluorescent display

66312A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Mobile communications DC source
Series Family	Keysight 66300 Mobile Communications DC Sources
Number of Outputs	1
Main Output Voltage	0 to 20 V
Main Output Current	0 to 2 A
Peak Current Up To 7 ms	not specified like 15 V 5 A peak row
Programming Accuracy Voltage 25 C	0.05 percent plus 10 mV
Programming Accuracy Current	0.05 percent plus 1.33 mA
Ripple Noise Voltage RMS	0.3 mV class on related 20 V sources
Ripple Noise Voltage Peak Peak	6 mV
Ripple Noise Current RMS	2 mA
DC Measurement Accuracy Voltage	0.03 percent plus 5 mV
Low Current Measurement Range	minus 20 mA to plus 20 mA at 0.1 percent plus 2.5 uA
Dynamic Measurement Buffer	4096 points
Sampling Interval	15 us to 31200 s
Transient Response Time	less than 100 us class
Command Processing Time	4 ms average
Output Programming Rise Fall	less than 2 ms
Measurement Time	50 ms average
GPIOB	IEEE-488.2 SCPI
DC Floating Voltage	plus or minus 50 Vdc from chassis
Remote Sensing Drop	up to 3 to 4 V total by model
Input Power	160 VA, 100 W

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.

performance models
GPIB SCPI with VXI drivers
Technical Specifications

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Notes

From Agilent 66312A Dynamic Measurement DC Source data sheet: 0 to 20 V / 0 to 2 A.

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.