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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 66321B DC Power Supply

The Keysight/Agilent 66321B is a mobile communications DC source for wireless and battery-powered device test. OEM overview rates main output 0 to 15 V / 0 to 3 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 Agilent Keysight 66321B Mobile Communications DC Source 0 to 15 V 0 to 3 A

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MODEL

**Agilent / Keysight
66321B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

66321B

LISTING

<https://aumictechlabs.com/products/66321b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 66321B is a single-output DC power supply engineered for battery-powered device testing, mobile communication validation, and automated test environments. It delivers 0–15 V at 0–3 A continuous current, with 5 A peak capability (7 ms maximum), up to 50 W output power. The instrument combines precise voltage and current programming with advanced battery emulation, dynamic current measurement, and transient compensation to replicate real-world battery behavior under load. Technical Specifications Output Ratings Voltage: 0 to 15 V Continuous current: 0 to 3 A Peak current: 5 A (7 ms maximum; average must not exceed 3 A) Maximum

power: 50 W Programming Accuracy (25°C ±5°C) Voltage: 0.05% + 10 mV Current: 0.05% + 1.33 mA Resistance: 0.5% + 2 mΩ DC Readback Accuracy Voltage: 0.03% + 5 mV Current (high range, -3 A to +5 A): 0.2% + 0.5 mA Current (mid range, -1 A to +1 A): 0.1% + 0.2 mA Current (low range, -20 mA to +20 mA): 0.1% + 2.5 μA Ripple and Noise (20 Hz to 20 MHz) Voltage: 1 mV rms / 6 mV peak-to-peak Current: 2 mA rms Load and Line Regulation Voltage load regulation: 5 mV Current load regulation: 0.75 mA Voltage line regulation: 0.5 mV Current line regulation: 0.75 mA Transient Response Recovery time: < 20 μs to within 12 mV Voltage dip: 40 mV (< 20 μs) or 70 mVKey Features Programmable output resistance for battery internal resistance emulation Programmable output compensation for transient response optimization Negative resistance programming to compensate for sense point voltage drops Built-in dynamic measurement system for precise current drain quantification Waveform capture and data logging (up to 1000 hours) CCDF statistical analysis GPIB interface for remote control and automated sequencingPhysical and Environmental Half-rack, 2U form factor: 212.8 mm W × 88.1 mm H × 435 mm D. Operating range 0–55°C, maximum 95% relative humidity, altitude to 2000 m. UL 3111-1, CSA 22.2 No. 1010.1, IEC 1010-1, EN 61010-1 compliant. EMC directive 89/336/EEC (ISM 1B or Group 1 Class B).

66321B 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 15 V
Main Output Current	0 to 3 A
Peak Current Up To 7 ms	5 A
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	1 mV
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 20 us
Command Processing Time	4 ms average
Output Programming Rise Fall	less than 200 us on 15 V models
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
Programmable Output Resistance Range	minus 40 mOhm to plus 1 Ohm
Input Power	1.7 A, 125 W at 100 Vac worst case

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 Keysight Mobile Communications DC Sources table column 66321B/D with battery emulation resistance programming.

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.