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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 66311A DC Power Supply

The Keysight/Agilent 66311A 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 66311A Mobile Communications DC Source 0 to 15 V 0 to 3 A

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MODEL

**Agilent / Keysight
66311A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

66311A

LISTING

<https://aumictechlabs.com/products/66311a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keysight 66311A is a single-output DC power supply engineered for dynamic testing of mobile communications devices. It delivers precise voltage and current sourcing with fast transient response, critical for battery-powered equipment under variable load conditions. The unit excels at simulating real-world battery behavior while minimizing test interruptions from voltage sag, making it essential for R&D, manufacturing, and service environments. Technical Specifications Electrical Output Voltage range: 0 to 15 V Current output: 0 to 3 A continuous Peak current sourcing: Up to 5 A for up to 7 ms Current sinking: Up to 2.8 A (2 A @ 7.5 V) Maximum power: 45

W Programming & Measurement Accuracy Voltage programming resolution: 3.75 mV Current programming resolution: 0.67 mA Voltage programming accuracy: ± 17.5 mV Voltage measurement accuracy: $\pm(0.03\% + 5 \text{ mV})$ Current measurement accuracy: $\pm(0.2\% + 0.5 \text{ mA})$ from 20 mA to rated current; $\pm(0.2\% + 1.1 \text{ mA})$ for negative currents; $\pm(0.1\% + 2.5 \mu\text{A})$ in the $\pm 20 \text{ mA}$ range Output noise and ripple: 6 mV peak-to-peak Transient response: Less than 35 μs recovery within 20 mV following 0.1 to 1.5 A load steps (high mode compensation, 5 to 12,000 μF loads)Key Features Precision microamp measurement enables accurate "sleep mode" power consumption characterization Dynamic current pulse measurement for battery load profiling Bidirectional operation supports testing of built-in battery chargers through current sinking Fast transient recovery optimizes manufacturing throughput by reducing test cycle interruptions Precise voltage and current sourcing for stable, repeatable battery simulationTypical Applications Mobile communications device development and validation Battery behavior simulation in production testing Built-in charger verification and characterization Low-power sleep-mode current measurement Dynamic load response analysisCompatibility & Integration The 66311A interfaces with standard test automation systems for mobile communications manufacturing and R&D environments.

66311A 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 35 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
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	
OEM overview lists 66311B column 0 to 15 V / 0 to 3 A; 66311A is the earlier single-output mobile DC source	

in the same 15 V / 3 A class. ConfirmAvsBfaceplate.

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.