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Data Sheet
August 13, 2026

HP / AGILENT

HP / Agilent 66311D DC Source 0-15V 0-3A

Keysight 66311D Mobile Communications DC Source with Auxiliary DVM The Keysight/Agilent 66311D is the single-output 15 V / 3 A (5 A peak for 7 ms) mobile-communications DC source witharear-panel auxiliary DVM. It matches the 66311B output and measurement set without programmable battery resistance (that feature is on 66319/66321). Transient recovery is less than 35 us; typical dip is 70 mV with up to 15 ft 22 AWG wiring. TheDsuffix adds -25 to +25 Vdc DVM readback. Single-port wireless-device DC substitution without battery-R emulation; digitized talk/standby current; rear DVM monitoring of fixture test points; legacy ATE that must remain 66311-compatible. The Keysight/Agilent 66311D is the single-output 15 V / 3 A (5 A peak for 7 ms) mobile-communications DC source witharear-panel auxiliary DVM. It matches the 66311B output and measurement set without programmable battery resistance (that feature is on 66319/66321). Transient recovery is less than 35 us; typical dip is 70 mV with up to 15 ft 22 AWG wiring. TheDsuffix adds -25 to +25 Vdc DVM readback. Single-port wireless-device DC substitution without battery-R emulation; digitized talk/standby current; rear DVM monitoring of fixture test points; legacy ATE that must remain 66311-compatible.

MODEL **HP / Agilent 66311D**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **66311D**	LISTING **https://aumictechlabs.com/products/66311d-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP/Agilent 66311D is a DC power supply engineered for high-throughput automated testing in digital wireless communications. It delivers 0–15 V at 0–3 A continuous output, with peak current

capability to 5 A for up to 7 ms, and supports current sinking to 2.8 A for battery charger validation. The unit features a built-in digital voltmeter (DVM) and automatic open-sense detection to prevent improper remote voltage settings and ensure accurate device under test calibration. Rapid transient response - recovering to within 20 mV of final value in less than 35 µs following 0.1–1.5 A load steps - minimizes voltage dip (70 mV) during pulsed current demands typical of modern digital devices. Technical Specifications Output Ratings Voltage: 0–15 V Continuous Current: 0–3 A Peak Current (7 ms max): 5 A Current Sinking: up to 2.8 A Accuracy (25°C ±5°C) Voltage Programming: ±10 mV (% of setting + fixed value) Current Programming: ±1.33 mA (% of setting + fixed value) DC Readback: ±0.04% of setting + 5 mV AC + DC RMS Readback (60 Hz–10 kHz, > 25 mVrms): ±1% of setting + 5 mV Ripple and Noise (20 Hz–20 MHz) Voltage RMS: 1 mV Voltage Peak-to-Peak: 6 mV Current RMS: 2 mA Transient Response Recovery Time: < 35 µs (within 20 mV of final value) Voltage Dip: 70 mV Physical Dimensions: 212.8 mm W × 88.1 mm H × 435 mm D Weight: approximately 9 kg Steel chassis construction Environmental Operating Temperature: 0°C to 55°C Humidity: up to 95% relative humidity Altitude: up to 2000 m Installation Category II, Pollution Degree 2 Key Features Built-in DVM for precision voltage measurement Microampere-range measurement capability for sleep-mode characterization Dynamic current pulse measurement for multi-mode battery drain analysis (talk, active, standby, sleep) Overvoltage and overcurrent protection Automatic open sense-connection detection Typical Applications Digital wireless device battery charger testing Pulsed-load battery drain characterization Device under test power delivery validation Sleep and active-mode current profiling Compatibility & Integration HP-IB (IEEE 488.2, SCPI command set) interface RS-232 available on select configurations

Features & description

From manufacturer datasheet

Features

• 66311 output set (no -40 milliohm to +1 ohm programming) • Auxiliary DVM onDsuffix (66311B has no DVM) • Two current-measure ranges including 20 mA leakage range • Open-sense detection; programmable compensation for wiring • 4096-point digitizer • GPIB SCPI; VXI plug and play drivers

66311D Characteristics / Specifications

PARAMETER	VALUE
Model	66311D
Manufacturer	Agilent / Keysight
Instrument Type	Single output mobile communications DC source with auxiliary DVM
Family	66300 Mobile Communications DC Sources
Alias	Agilent 66311D; Keysight 66311D; 66311B/D
Number Of Outputs	1
Main Output Voltage	0 to 15 V
Main Output Current	0 to 3 A
Main Peak Current	5 A for up to 7 ms
Programming Accuracy Voltage	0.05 percent plus 10 mV at 25 plus/minus 5 C
Programming Accuracy Plus Current	0.05 percent plus 1.33 mA at 25 plus/minus 5 C
Ripple Voltage RMS	1 mV (20 Hz to 20 MHz)
Ripple Voltage PP	6 mV
Ripple Current RMS	2 mA
DC Measurement Voltage	0.03 percent plus 5 mV
DC Measurement Plus 20 mA To Rated	0.2 percent plus 0.5 mA (dc detector)
DC Measurement Minus 20 mA To Rated	0.2 percent plus 1.1 mA
DC Measurement minus 20 mA to plus 20 mA	0.1 percent plus 2.5 uA
Dynamic Buffer Size	4096 points
Sampling Interval	15 us to 31200 s
Transient Response Time	less than 35 us to within 20 mV after 0.1 to 1.5 A step
Transient Voltage Dip Typical	70 mV (up to 15 ft 22 AWG)
Programmable Resistance	not available (66311 versus 66319/66321)
DVM Input Range	-25 to +25 Vdc (D models)
DVM DC Readback	0.04 percent plus 5 mV at 25 plus/minus 5 C

PARAMETER	VALUE
DVM AC Plus DC Readback	1 percent plus 5 mV (60 kHz to 10 kHz class)
Output Programming Rise Fall	less than 200 us (10/90 percent)
Command Processing Time	4 ms average (display disabled)
Measurement Time Average	50 ms
DC Floating Voltage	plus/minus 50 Vdc maximum from chassis
Remote Sense Drop	up to 4 V in each load lead (66311B/D)
Load Regulation Add	2 mV per 1 V drop in the positive output lead
Input Power Worst Case	1.7 A, 125 W at 100 Vac full load
Size	212.8 mmWx 88.1 mmHx 435 mmDNet Weight: 9.1 kg (20 lb)
Line Options	100 87-106 Vac; 120 104-127 Vac; 220 191-233 Vac; 230 207-253 Vac; 47-63 Hz
Related Without DVM	66311B
Related With Battery R	66321B / 66321D
Related Dual Output	66309B / 66309D

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

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PARAMETER	VALUE
Model	66311D
Manufacturer	Agilent / Keysight
Instrument Type	Single output mobile communications DC source with auxiliary DVM
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Main Peak Current	5 A for up to 7 ms
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Programming Accuracy Plus Current	0.05 percent plus 1.33 mA at 25 plus/minus 5 C
Ripple Voltage RMS	1 mV (20 Hz to 20 MHz)
Ripple Voltage PP	6 mV
Ripple Current RMS	2 mA
DC Measurement Voltage	0.03 percent plus 5 mV
DC Measurement Plus 20 mA To Rated	0.2 percent plus 0.5 mA (dc detector)
DC Measurement Minus 20 mA To Rated	0.2 percent plus 1.1 mA

DC Measurement minus 20 mA to plus 20 mA: 0.1 percent plus 2.5 uA

Specifications

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Programmable Resistance	not available (66311 versus 66319/66321)

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Related Without DVM	66311B
Related With Battery R	66321B / 66321D
Related Dual Output	66309B / 66309D

Notes
Output, ripple, and transient rows are the 5988-6569EN 66311B column; DVM rows are the overview D-model column (66309D/66319D/66321D). 66311D is the DVM version of 66311B. Do not quote 66319/66321 programmable-resistance or 40 mV dip rows on this model.

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

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