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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6114A DC Power Supply

HP Agilent 6114A Precision Voltage Source The HP/Agilent 6114A is a 40 W precision CV/CC power supply with automatic dual-range output of 0 to 20 V at up to 2 A and 20 to 40 V at up to 1 A. OEM precision-source literature rates output accuracy at 0.025% + 1 mV after warm-up with very tight load and line regulation for laboratory voltage references and component bias. Precision DC bias for metrology benches, resistor and semiconductor characterization, and low-noise constant-voltage/constant-current laboratory supply work to 40 V. The HP/Agilent 6114A is a 40 W precision CV/CC power supply with automatic dual-range output of 0 to 20 V at up to 2 A and 20 to 40 V at up to 1 A. OEM precision-source literature rates output accuracy at 0.025% + 1 mV after warm-up with very tight load and line regulation for laboratory voltage references and component bias. Precision DC bias for metrology benches, resistor and semiconductor characterization, and low-noise constant-voltage/constant-current laboratory supply work to 40 V. Automatic dual-range 20 V/2 A and 40 V/1 A output



MODEL

**Agilent / Keysight
6114A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6114A

LISTING

<https://aumictechlabs.com/products/6114a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6114A is a precision DC power supply engineered for laboratory standards, sensitive electronic testing, and automated test equipment (ATE) integration. It delivers dual-range output without manual switching: 0–20 VDC at 0–2 ADC or 20–40 VDC at 0–1 ADC, with total power capacity of 40 W. Low-noise design and excellent regulation characteristics support

demanding measurement and system integration tasks.

Technical Specifications

Output Ratings 0–20 VDC at 0–2 ADC 20–40 VDC at 0–1 ADC Total Power: 40 W

Voltage Control & Accuracy Pushbutton voltage controls with four-digit direct entry and 200 μ V resolution via fifth-digit adjustment Voltage accuracy: 0.025% (250 ppm) + 1 mV; at 40 V output, accuracy within ± 11 mV

Remote programming via external voltage or resistance Five-minute warm-up to achieve specified accuracy

Current Control Continuously variable front-panel adjustment with ten-turn dial and 2 mA resolution

Constant-current source operation with 0.01% current regulation

Current Mode Indicator (LED) displays gross current limit or set current level reached

Output Protection Built-in SCR crowbar circuit with adjustable overvoltage protection (OVP) Reduces output voltage and current to zero when preset voltage limit is exceeded

Environmental Operating Temperature: 0°C to 50°C Storage Temperature: –40°C to +75°C

Key Features Dual-range output eliminates manual switching Low-noise output suitable for precision measurement Pushbutton and dial controls for rapid, accurate voltage and current setting SCR crowbar overvoltage protection protects sensitive loads

Typical Applications Laboratory standards and calibration Sensitive electronic circuit testing System integration and validation Automated test equipment (ATE) setups

Compatibility & Integration Remote programming via external voltage or resistance HP Multiprogrammer interfacing included as standard Compatible with HP-IB Isolated D/A Power Supply Programmer

6114A Characteristics / Specifications

PARAMETER	VALUE
Output Range Low	0 to 20 V, 0 to 2 A
Output Range High	20 to 40 V, 0 to 1 A
Total Output Power	40 W
Output Voltage Resolution Class	200 μ V
Output Accuracy After Warm Up	0.025% + 1.0 mV
CV Load Regulation	0.0005% + 100 μ V class OEM sheet
CV Line Regulation	0.0005% + 40 μ V class
CV Ripple Noise	40 μ Vrms / 100 μ V p-p to 20 MHz
CV Eight Hour Drift	0.0015% + 15 μ V after 30 min warm-up
CV Temperature Coefficient	0.001% + 15 μ V per C (0 to 55 C)
CC Load Regulation	0.01% + 500 μ A
CC Line Regulation	0.005% + 40 μ A
CC Ripple Noise	200 μ Arms / 1 mA p-p
CC Eight Hour Drift	0.25% + 7 mA
Transient Recovery	less than 50 μ s to within 10 mV for full load step
Warm Up For Rated Accuracy	5 minutes class
Meter Accuracy Class	+/-2% of full scale
AC Line	104 to 127 V or 208 to 254 V, 48 to 440 Hz class
Operating Modes	constant voltage and constant current
Form Factor	half-rack precision voltage source
Remote Programming Capability	yes family
Overvoltage Protection	yes family
Output Power Class	40 W continuous
Settling Class Front Panel	1.75 s class OEM note for 6114A

6114A Specifications

PARAMETER	VALUE
HP Agilent 6114A Precision Voltage Source	Overview
Key Features	Automatic dual-range 20 V/2 A and 40 V/1 A output
Technical Specifications	Output Range Low: 0 to 20 V, 0 to 2 A

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
Output Range Low	0 to 20 V, 0 to 2 A
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Total Output Power	40 W
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Output Accuracy After Warm Up	0.025% + 1.0 mV
CV Load Regulation	0.0005% + 100 uV class OEM sheet
CV Line Regulation	0.0005% + 40 uV class
CV Ripple Noise	40 uVrms / 100 uV p-p to 20 MHz
CV Eight Hour Drift	0.0015% + 15 uV after 30 min warm-up
CV Temperature Coefficient	0.001% + 15 uV per C (0 to 55 C)
CC Load Regulation	0.01% + 500 uA
CC Line Regulation	0.005% + 40 uA
CC Ripple Noise	200 uArms / 1 mA p-p
CC Eight Hour Drift	0.25% + 7 mA
Transient Recovery	less than 50 us to within 10 mV for full load step
Warm Up For Rated Accuracy	5 minutes class
Meter Accuracy Class	+/-2% of full scale
AC Line	104 to 127 V or 208 to 254 V, 48 to 440 Hz class
Operating Modes	constant voltage and constant current
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Remote Programming Capability	yes family
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Notes

Numeric limits from HP 6114A/6115A precision power supply literature matching OEM values. Confirm decade-switch resolution and OVP setting on the faceplate.

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.