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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6186B DC Power Supply

The Agilent / HP 6186B is a precision DC current source for laboratory and system applications. OEM HP 6186B literature describes highly regulated current sourcing with multiple ranges for component and materials testing. Precision current forcing for resistor diode and material characterization and bias of current-driven devices. Precision DC current source Multiple current ranges High regulation low noise class Front panel and remote control class Laboratory half-rack packaging Storage Temperature Class: minus 40 C to 75 C Accuracy Class: precision current accuracy Regulation Class: tight current regulation Compliance Voltage Class: rated compliance Identity from Agilent/Keysight 6186B DC Power Supply / current source listings. Exact ampere ranges and compliance voltage are in the HP 6186B manual.



MODEL

**Agilent / Keysight
6186B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6186B

LISTING

[https://aumictechlabs.c
om/products/6186b-2/](https://aumictechlabs.com/products/6186b-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 6186B is a precision DC current source engineered for measurement applications demanding exceptional regulation, stability, and minimal output ripple. This instrument delivers the controlled current output required for semiconductor characterization, resistance metrology, and component validation across multiple disciplines. Technical Specifications Product Type: Precision DC Current Source Regulation: High degree of regulation and stability Ripple: Very low ripple characteristics Key Features Precision current sourcing with stable output under varying load conditions Low ripple design minimizes noise in sensitive

measurements High regulation ensures predictable, repeatable test results across extended operating periods Typical Applications Semiconductor device measurements - reverse breakdown voltage characterization Transistor current transfer ratio determination Four-terminal resistance measurement protocols Impatt diode evaluation and validation Electrolytic capacitor testing and burn-in Electrochemistry experiments and analysis Electromagnetics research and component assessment Compatibility & Integration The 6186B integrates into laboratory benches and automated test systems requiring precision DC current sourcing. Its stability and regulation characteristics support both manual characterization and programmed measurement sequences.

6186B Characteristics / Specifications

PARAMETER	VALUE
Model	6186B
Instrument Type	DC current source
Manufacturer	HP Agilent Keysight
Output Type	constant current
Form Factor	half rack benchtop
Operating Temperature Class	0 C to 55 C
Storage Temperature Class	minus 40 C to 75 C
Line Power	100/120/220/240 V
Humidity Class	non condensing
Display	current setpoint display
Duty	continuous
Grounding	floating output class
Cooling	convection or fan
Mass Class	half rack
Calibration	current cal
Safety	instrument safety
Remote	analog or digital program class
Accuracy Class	precision current accuracy
Regulation Class	tight current regulation
Compliance Voltage Class	rated compliance
Ranges	multi range current
Noise Class	low noise current
Protection	overload protect
Stability	low drift
Polarity	unipolar or reversible class

PARAMETER	VALUE
Sense	local or remote sense class
Storage temperature	Class: minus 40 C to 75 C
Operating temperature	Class: 0 C to 55 C
Humidity	Class: non condensing

6186B Specifications

PARAMETER	VALUE
Agilent HP 6186B DC Current Source	Overview
Multiple current ranges	High regulation low noise class
Technical Specifications	Model: 6186B

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 75 C
Operating temperature	Class: 0 C to 55 C
Operating Temperature	Class: 0 C to 55 C
Humidity	Class: non condensing
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Sense	local or remote sense class Notes Identity from Agilent/Keysight 6186B DC Power Supply / current source listings. Exact ampere ranges and

PARAMETER

VALUE

compliance voltage are in the HP 6186B manual.

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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Notes

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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.