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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 60507B DC Power Supply

HP Agilent Keysight 60507B 150 V 60 A 500 W Electronic Load Module The HP/Agilent 60507B is a 500 W electronic load module for 6050A and 6051A mainframes. OEM HP 60xx electronic-load specification tables rate 3 to 150 V, 0 to 60 A, 500 W at 40 C, constant-current ranges of 0 to 6 A and 0 to 60 A, and 0.1 percent plus 80 mA CC accuracy. DC power-supply and converter characterization, incoming inspection, and ATE burn-in using 6050A/6051A multiple-input mainframes. One GPIB address controls every module in a mainframe The HP/Agilent 60507B is a 500 W electronic load module for 6050A and 6051A mainframes. OEM HP 60xx electronic-load specification tables rate 3 to 150 V, 0 to 60 A, 500 W at 40 C, constant-current ranges of 0 to 6 A and 0 to 60 A, and 0.1 percent plus 80 mA CC accuracy. DC power-supply and converter characterization, incoming inspection, and ATE burn-in using 6050A/6051A multiple-input mainframes. One GPIB address controls every module in a mainframe Analog voltage programming of constant current



MODEL

**Agilent / Keysight
60507B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

60507B

LISTING

<https://aumictechlabs.com/products/60507b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 60507B is a 300 W DC power supply delivering 0–60 VDC at 0–5 A for precision test and measurement applications. It combines low-noise output, fast transient response, and adjustable protection with both local and remote programming capabilities, making

it suitable for R&D and manufacturing environments requiring stable, regulated power delivery. Technical Specifications Output: 0–60 VDC, 0–5 A, 300 W maximum Line Regulation: < 0.01% + 2 mV ($\pm 10\%$ line change) Load Regulation: < 0.02% + 2 mV (0–100% load change) Ripple and Noise: < 0.5 mV RMS (20 Hz to 20 MHz) Transient Response: < 50 μ s (10%–90% load change) Overvoltage Protection: Adjustable, typically $\pm 10\%$ of output setting Overcurrent Protection: Adjustable, typically $\pm 10\%$ of output setting Over-Temperature Protection: Internal thermal shutdown Operating Temperature: 0°C to 40°C Storage Temperature: –40°C to 70°C Humidity: 5% to 85% RH (non-condensing) Input: 100–120 VAC or 200–240 VAC, 50/60 Hz (selectable or auto-ranging) Dimensions: 5.25 × 16.75 × 14.25 inches (133 × 425 × 362 mm) Weight: 35 lbs (15.9 kg) Cooling: Forced air Key Features Analog Programming: Voltage (5 V/10 V per full-scale), Current (5 V/10 V per full-scale) Input Impedance: 10 k Ω (voltage), 1 k Ω (current) Remote Sense terminals for output wiring compensation Front-panel binding post output terminals Optional interface card slots for GPIB, LAN, or USB control Local front-panel controls for voltage, current, and output on/off Typical Applications Research and development, manufacturing test, precision electronic characterization, and systems requiring regulated DC power with low noise and fast load response. Compatibility & Integration Optional digital control via interface cards (GPIB, LAN, USB). Standard analog programming inputs enable integration into automated test systems.

Features & description

From manufacturer datasheet

Specified performance at 3.0 V and above at the load point

Technical Specifications Model: 60507B Instrument Type: Electronic load module Host Mainframes: 6050A and 6051A Voltage Range: 3 to 150 V Current Range: 0 to 60 A Maximum Power At 40 C: 500 W Constant Current Low Range: 0 to 6 A Constant Current High Range: 0 to 60 A Constant Current Accuracy: 0.1 percent plus 80 mA Constant Current Regulation: 10 mA with at least 3 V at the point Analog Programming Bandwidth: 10 kHz minus 3 dB Minimum Specified Voltage: 3.0 V Mainframe 6050A Total Power: 1800 W Mainframe 6050A Module Capacity: three 60507B modules Mainframe 6051A Total Power: 600 W Mainframe 6051A Module Capacity: one 60507B module Mainframe 6050A Dimensions: 425.5 mmWx 177 mmHx 624.7 mmD Mainframe 6051A Dimensions: 213 mmWx 177 mmHx 624.7 mmD Remote Control: GPIB through mainframe Programming Input: analog control voltage for load current Protection Modes: overcurrent overvoltage overpower overtemperature reverse polarity Mechanical Package: plug-in load module Operating Context: 6050A/6051A electronic load system Notes Numeric rows from HP dc Electronic Loads specification table column 60507B and the 6050A/6051A mainframe capacity notes. Confirm front-panel option 020 if installed.

60507B Characteristics / Specifications

PARAMETER	VALUE
Model	60507B
Instrument Type	Electronic load module
Host Mainframes	6050A and 6051A
Voltage Range	3 to 150 V
Current Range	0 to 60 A
Maximum Power At 40 C	500 W
Constant Current Low Range	0 to 6 A
Constant Current High Range	0 to 60 A
Constant Current Accuracy	0.1 percent plus 80 mA
Constant Current Regulation	10 mA with at least 3 V at the point
Analog Programming Bandwidth	10 kHz minus 3 dB
Minimum Specified Voltage	3.0 V
Mainframe 6050A Total Power	1800 W
Mainframe 6050A Module Capacity	three 60507B modules
Mainframe 6051A Total Power	600 W
Mainframe 6051A Module Capacity	one 60507B module
Mainframe 6050A Dimensions	425.5 mmWx 177 mmHx 624.7 mmDMainframe 6051A Dimensions: 213 mmWx 177 mmHx 624.7 mmDRemote Control: GPIB through mainframe
Programming Input	analog control voltage for load current
Protection Modes	overcurrent overvoltage overpower overtemperature reverse polarity
Mechanical Package	plug-in load module
Operating Context	6050A/6051A electronic load system
Bandwidth	10 kHz minus 3 dB

60507B Specifications

PARAMETER	VALUE
Applications	DC power-supply and converter characterization, incoming inspection, and ATE burn-in using 6050A/6051A multiple-input mainframes.
One GPIB address controls every module in a mainframe	Analog voltage programming of constant current
Fits 6050A (up to three 60507B) or 6051A (one 60507B)	Specified performance at 3.0 V and above at the load point
Technical Specifications	Model: 60507B

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 at 3.0 V and above at the load point	
Technical Specifications	
Technical Specifications	
PARAMETER	VALUE
Model	60507B
Instrument Type	Electronic load module
Host Mainframes	6050A and 6051A
Voltage Range	3 to 150 V
Current Range	0 to 60 A
Maximum Power At 40 C	500 W
Constant Current Low Range	0 to 6 A
Constant Current High Range	0 to 60 A
Constant Current Accuracy	0.1 percent plus 80 mA
Constant Current Regulation	10 mA with at least 3 V at the point
Analog Programming Bandwidth	10 kHz minus 3 dB
Minimum Specified Voltage	3.0 V
Mainframe 6050A Total Power	1800 W
Mainframe 6050A Module Capacity	three 60507B modules
Mainframe 6051A Total Power	600 W
Mainframe 6051A Module Capacity	one 60507B module
Mainframe 6050A Dimensions	425.5 mm W x 177 mm H x 624.7 mm D
Mainframe 6051A Dimensions	213 mm W x 177 mm H x 624.7 mm D
Remote Control	GPIB through mainframe
Programming Input	analog control voltage for load current
Protection Modes	overcurrent overvoltage overpower overtemperature reverse polarity
Mechanical Package	plug-in load module
Operating Context	6050A/6051A electronic load system
Technical Specifications	

PARAMETER	VALUE
Model	60507B
Instrument Type	Electronic load module
Host Mainframes	6050A and 6051A
Voltage Range	3 to 150 V
Current Range	0 to 60 A
Maximum Power At 40 C	500 W
Constant Current Low Range	0 to 6 A
Constant Current High Range	0 to 60 A
Constant Current Accuracy	0.1 percent plus 80 mA
Constant Current Regulation	10 mA with at least 3 V at the point
Analog Programming Bandwidth	10 kHz minus 3 dB
Minimum Specified Voltage	3.0 V
Mainframe 6050A Total Power	1800 W
Mainframe 6050A Module Capacity	three 60507B modules
Mainframe 6051A Total Power	600 W
Mainframe 6051A Module Capacity	one 60507B module
Mainframe 6050A Dimensions	425.5 mmWx 177 mmHx 624.7 mmDMainframe 6051A Dimensions: 213 mmWx 177 mmHx 624.7 mmDRemote Control: GPIB through mainframe
Programming Input	analog control voltage for load current
Protection Modes	overcurrent overvoltage overpower overtemperature reverse polarity
Mechanical Package	plug-in load module
Operating Context	6050A/6051A electronic load system

Notes

Numeric rows from HP dc Electronic Loads specification table column 60507B and the 6050A/6051A mainframe capacity notes. Confirm front-panel option 020 if installed.

Ordering Information

OPTION	DESCRIPTION
Option 020	if installed.

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.