

KEYSIGHT TECHNOLOGIES (AGILENT HP)

60504B

The Keysight (Agilent) 60504B is a 600-watt DC electronic load module designed for use with compatible electronic load mainframes. It is ideal for the test, evaluation, and characterization of DC power sources and power components in research and development, production, and incoming inspection applications.

SPECIFICATIONS

General

Display	None (utilizes mainframe display)
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Physical

Power Supply	Powered directly by the mainframe backplane
Operating Temperature	0 to 55 °C °C
Weight	9.5 kg
Slot Width	Double-wide (occupies 2 mainframe slots)

Input Ratings and Operating Ranges

Maximum Input Power	600 W
Operating Voltage Range	3 V to 60 V
Maximum Input Current	120 A
Minimum Operating Voltage	3 V (at full current)

Operating Modes & Accuracy

Constant Voltage Range	0 V to 60 V
Constant Current Range (Low)	0 A to 12 A
Constant Current Range (High)	0 A to 120 A
Constant Resistance Range (Low)	0.017 to 0.5 Ohms
Constant Resistance Range (Medium)	0.5 Ohms to 500 Ohms
Constant Resistance Range (High)	5 Ohms to 5 kOhms

Measurement and Readback Accuracy

Voltage Readback Resolution (GPIB)	17 mV
Voltage Readback Resolution (Front Panel)	20 mV
Current Readback Resolution (GPIB)	34 mA
Current Readback Resolution (Front Panel)	100 mA
Voltage PARD (Ripple and Noise)	8 mV rms
Current PARD (Ripple and Noise, rms)	6 mA rms
Current PARD (Ripple and Noise, p-p)	60 mA p-p

Connectivity & Control Interfaces

Analog Programming Input

Analog voltage control in constant current mode

Protection Features

Over-Current Protection Yes

Over-Voltage Protection Yes

Over-Power Protection Yes

Over-Temperature Protection Yes

Reverse Polarity Protection Yes

Performance

Current Slew Rate (High Range) 0.08 A/μs to 8 A/μs

Current Slew Rate (Low Range) 0.008 A/μs to 0.8 A/μs

Voltage Temperature Coefficient 100 ppm/°C

Current Temperature Coefficient 150 ppm/°C

Resistance Temperature Coefficient 300 ppm/°C

Transient Operation

Transient Frequency Range 0.25 Hz to 10 kHz

Transient Duty Cycle Range 1% to 99% (0.25 Hz to 1 kHz) / 10% to 90% (1 kHz to 10 kHz)

Inputs & Outputs

Maximum Sense Lead Drop 2 V per lead

Maximum Remote Sense Common Mode Voltage 60 VDC

Programming Accuracy

Constant Current Programming Accuracy (High Range) 0.12% + 120 mA

Constant Current Programming Accuracy (Low Range) 0.12% + 40 mA

Constant Voltage Programming Accuracy 0.1% + 75 mV

Constant Resistance Programming Accuracy (Low Range) 2% + 6 mS

Constant Resistance Programming Accuracy (Medium Range) 2% + 0.1 mS

Constant Resistance Programming Accuracy (High Range) 2.5% + 2.5 μS

Readback Accuracy

Voltage Readback Accuracy	0.07% + 60 mV
Current Readback Accuracy (High Range)	0.1% + 110 mA
Current Readback Accuracy (Low Range)	0.1% + 20 mA
Peak Voltage Readback Accuracy	2% + 160 mV
Peak Current Readback Accuracy (High Range)	2% + 320 mA
Peak Current Readback Accuracy (Low Range)	2% + 60 mA

Programming Resolution

Constant Current Programming Resolution (High Range)	30 mA
Constant Current Programming Resolution (Low Range)	3 mA
Constant Voltage Programming Resolution	15 mV

Isolation & Safety

Maximum Terminal to Chassis Voltage	±240 VDC
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TECHNOLOGY

DC Electronic Load

APPLICATIONS

Testing and evaluation of DC power sources and power components

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.