

KEYSIGHT TECHNOLOGIES (AGILENT HP)

6060B

The Keysight Technologies (formerly Agilent HP) 6060B is a 300 W, single-output DC electronic load designed for test systems and bench evaluation of DC power sources and components. Equipped with built-in measurements and GPIB programmability using standard SCPI commands, it offers flexible operating modes including Constant Current, Constant Voltage, and Constant Resistance along with comprehensive protection features.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488)
DC Input Isolation Voltage	±240 VDC
Recommended Calibration Interval	1 year

Physical

Operating Temperature	0 to 55 °C °C
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Input Ratings

Maximum Input Power	300 W
Maximum Input Current	60 A
Maximum Input Voltage	60 V
Minimum Operating Voltage	3 V (at 60 A)

Constant Current (CC) Mode

CC Operating Ranges	0 to 6 A, 0 to 60 A
CC Programming Accuracy	0.1% ±75 mA
CC Regulation	10 mA

Constant Voltage (CV) Mode

CV Operating Range	0 to 60 V
CV Programming Accuracy	0.1% ±50 mV
CV Regulation	10 mV (with remote sense)

Constant Resistance (CR) Mode

CR Operating Ranges	0.033 to 1 Ω / 1 to 1,000 Ω / 10 to 10,000 Ω
CR Programming Accuracy (1 kΩ range)	0.3% ±8 mS (with ≥6V at input)

Transient Operation

Transient Frequency Range	0.25 Hz to 10 kHz
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Protection Features

Overvoltage Protection (OVP)	Included
Overcurrent Protection (OCP)	Included
Overtemperature Protection (OTP)	Included
Overpower Protection (OPP)	Included
Reverse Polarity Protection	Included

Connectivity and System Control

Command Language	SCPI (Standard Commands for Programmable Instruments)
Driver Support	VXI Plug & Play
Remote Sensing Terminals	Yes

Readback Accuracy

Voltage Readback Accuracy	$\pm(0.05\% + 45 \text{ mV})$
Current Readback Accuracy (60 A Range)	$\pm(0.12\% + 65 \text{ mA})$

Resolution

Voltage Programming Resolution	16 mV
Current Programming Resolution (60 A Range)	16 mA
Voltage Readback Resolution	16 mV
Current Readback Resolution (60 A Range)	16 mA

Analog Outputs

Voltage Monitor Output	0 to 10 V
Current Monitor Output	0 to 10 V

Isolation & Grounding

Maximum Common-Mode Voltage	$\pm 240 \text{ VDC}$
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Environmental

Storage Temperature Range	-40 °C to +75 °C
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Performance

Ripple and Noise (Current)	4 mA rms / 40 mA p-p
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Inputs & Outputs

External Analog Programming Voltage Range	0 to 10 V
External Analog Programming Input Impedance	10 k Ω nominal

Power

AC Input Voltage Selection	100 / 120 / 220 / 240 VAC (switchable)
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TECHNOLOGY

Solid-state DC Electronic Load

APPLICATIONS

Power source evaluation, DC-DC converter testing, battery capacity testing, and general bench test applications

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