

KEYSIGHT TECHNOLOGIES (AGILENT HP)

6035A

The Keysight Technologies (Agilent HP) 6035A is a high-performance 1064W, single-output autoranging DC system power supply designed for demanding test systems. Part of the industry-standard 6030 Series, the 6035A offers precise GPIB and analog programming of output voltage and current up to 500 V and 5 A, optimizing rack space and simplifying complex automated test environment setup.

SPECIFICATIONS

General

Interfaces	GPIB (IEEE-488), Analog
Display	Dual 3.5-digit LED displays for voltage and current
Warm-Up Time	30 minutes

Physical

Power Supply	100 VAC / 120 VAC / 220 VAC / 240 VAC (option-dependent), 48 to 63 Hz
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	425.5 mm × 132.6 mm × 503.7 mm mm
Weight	16.3 kg

Output Ratings and Capabilities

Number of Channels	1
Rated Output Voltage	0 to 500 V
Rated Output Current	0 to 5 A
Rated Output Power	1000 W
Output Type	Autoranging

Load and Line Regulation

Voltage Load Regulation	0.01% + 25 mV
Current Load Regulation	0.01% + 5 mA
Voltage Line Regulation	0.01% + 25 mV
Current Line Regulation	0.01% + 2 mA

Ripple and Noise

Constant Voltage Ripple and Noise (Vrms)	50 mV
Constant Voltage Ripple and Noise (Vp-p)	160 mV
Constant Current Ripple and Noise (Irms)	5 mA

Programming Accuracy and Resolution

Voltage Programming Accuracy	0.07% + 400 mV
Current Programming Accuracy	0.085% + 7 mA
Voltage Programming Resolution	125 mV
Current Programming Resolution	1.25 mA

Readback Accuracy and Resolution

Voltage Readback Accuracy	0.08% + 350 mV
Current Readback Accuracy	0.09% + 6 mA
Voltage Readback Resolution	125 mV
Current Readback Resolution	1.25 mA

Transient Response and Dynamic Performance

Transient Recovery Time	< 2 ms
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Protection Features

Over-Voltage Protection (OVP) Range	10 V to 550 V
Over-Temperature Protection	Yes

System Connectivity and Interfaces

Analog Programming Interface	0-5 V, 0-10 V, 0-4 kΩ, or 0-8 kΩ user-selectable
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Physical and Mechanical

Form Factor	3U full-rack
Cooling System Design	Forced-air cooling (internal fan)

Protection & Isolation

Output Terminal Isolation	±550 VDC maximum from chassis ground
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Accuracy & Temperature Drift

Voltage Temperature Coefficient	0.01% + 5 mV per °C
Current Temperature Coefficient	0.02% + 0.5 mA per °C

Output Characteristics

Remote Sensing Lead Drop	Up to 2 V maximum per load lead
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Environmental

Storage Temperature Range	-20 °C to +70 °C
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Programming & Control

Command Languages	SCPI, Compatibility Mode
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AC Input

AC Input Voltage Options	100 VAC (Option 100) / 120 VAC (Standard) / 220 VAC (Option 220) / 240 VAC (Option 240)
AC Input Current	17 A rms @ 120 VAC / 10 A rms @ 220 or 240 VAC
AC Input Frequency	48 to 63 Hz
Maximum Input Power	1600 VA
Power Factor	0.7 (typical)

OVP Specifications

OVP Programming Accuracy	1.6% + 10 V
OVP Programming Resolution	2 V

Programming Response Time

CV Up-Programming Time (Full Load)	150 ms
CV Up-Programming Time (No Load)	150 ms
CV Down-Programming Time (Full Load)	150 ms
CV Down-Programming Time (No Load)	2000 ms
Command Processing Time	15 ms

Stability

Output Voltage Drift (8 hours)	0.03% + 40 mV
Output Current Drift (8 hours)	0.03% + 2 mA

Regulatory & Compliance

RFI Compliance	Complies with FCC Class A / VDE 0871 Class A
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TECHNOLOGY

Linear-regulator / Switch-mode hybrid DC Power Supply

APPLICATIONS

Automated Test Equipment (ATE), high-voltage component testing, system integration

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