

KEYSIGHT TECHNOLOGIES (AGILENT HP)

6227B

The Keysight Technologies (Agilent HP) 6227B is a classic, highly reliable dual-channel linear DC power supply. Designed for versatile benchtop and system applications, it provides dual independent outputs of 0 to 25 V and 0 to 2 A. For increased output flexibility, it supports auto-series, auto-parallel, and auto-tracking configurations, allowing both sections to act as a single coordinated supply.

SPECIFICATIONS

General

Display	Dual analog meters (voltmeter and ammeter) with channel selection switch
Cooling	Convection

Physical

Power Supply	104 - 127 VAC / 208 - 254 VAC, 48 - 63 Hz, 115 W
Operating Temperature	0 to 55 °C °C
Dimensions (W×H×D)	216 × 89 × 410 mm mm
Weight	7.3 kg kg

Output Ratings and Capabilities

Number of Channels	2
Rated Output Voltage (Per Channel)	0 to 25 V
Rated Output Current (Per Channel)	0 to 2 A
Auto-Series Output Voltage Range	0 to 50 V
Auto-Series Output Current Range	0 to 2 A
Auto-Parallel Output Voltage Range	0 to 25 V
Auto-Parallel Output Current Range	0 to 4 A
Auto-Tracking Operation	Supported

Load and Line Regulation

Voltage Load Regulation	0.01% + 1 mV
Current Load Regulation	0.01% + 250 µA
Voltage Line Regulation	1 mV
Current Line Regulation	100 µA

Ripple and Noise

Constant Voltage Ripple (rms)	250 µV
Constant Voltage Ripple (p-p)	4 mV
Constant Current Ripple (rms)	250 µA

Performance

Transient Recovery Time	< 50 μ s for recovery to within 15 mV of nominal output after a load change
Temperature Coefficient (Voltage)	0.02% + 1 mV per $^{\circ}$ C
Temperature Coefficient (Current)	0.02% + 1 mA per $^{\circ}$ C
Drift / Stability (8 Hours)	Constant Voltage: 0.1% + 5 mV, Constant Current: 0.1% + 5 mA

Safety & General

Maximum Isolation Voltage	300 VDC (either terminal to ground)
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Programming & Control

Remote Voltage Programming Coefficient	200 ohms/V
Remote Current Programming Coefficient	500 ohms/A
Voltage Control Type	10-turn potentiometer
Current Control Type	1-turn potentiometer

Metering

Voltmeter Range	0 to 30 V
Ammeter Range	0 to 2.4 A
Meter Accuracy	$\pm$ 3% of full scale

Outputs

Output Terminals	Front-panel 3-way binding posts and rear-panel barrier strip
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Power

Power Consumption	115 W
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TECHNOLOGY

Linear

APPLICATIONS

Benchtop and system DC power delivery

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