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**Data Sheet**

August 14, 2026

AGILENT / KEYSIGHT

## Agilent/Keysight 6271B DC Power Supply

Agilent 6271B Regulated DC Power Supply 0 to 60 V 0 to 3 A The HP/Agilent 6271B is a constant-voltage/constant-current rack/bench DC power supply. OEM operating manual Table 1-1 rates 0 to 60 V at 0 to 3 A. System racks and benches needing medium-power regulated DC with crowbar protection. Series regulator with triac preregulator for efficiency. The HP/Agilent 6271B is a constant-voltage/constant-current rack/bench DC power supply. OEM operating manual Table 1-1 rates 0 to 60 V at 0 to 3 A. System racks and benches needing medium-power regulated DC with crowbar protection. Series regulator with triac preregulator for efficiency. Built-in fast overvoltage crowbar with adjustable trip.



MODEL

**Agilent / Keysight  
6271B**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**6271B**

LISTING

<https://aumictechlabs.com/products/6271b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

### This unit

The Agilent/Keysight 6271B is a programmable DC power supply delivering adjustable voltage and current outputs for electronic testing and development. Operating from 0 to 40 V and 0 to 50 A, this unit has stable power for high-power device testing, motor characterization, and industrial equipment evaluation. The supply features low ripple and noise performance, precise load and line regulation, remote sensing capability for compensated voltage delivery, and comprehensive protection including overload, over-voltage, over-current, and over-temperature safeguards. Remote programming integration enables automated test system deployment. A 19-inch rackmount form factor (483 mm W × 127 mm H × 479.4 mm D, 21.7 kg) suits laboratory and

manufacturing environments requiring indoor operation below +40°C ambient temperature.

**Technical Specifications**

Output Voltage: 0 to 40 V (adjustable) Output Current: 0 to 50 A (adjustable) Ripple and Noise (typical): Constant Voltage mode: 200  $\mu$ V rms Constant Current mode: 5 mA rms Load Regulation: Constant Voltage mode: 0.01% + 200  $\mu$ V Constant Current mode: 0.02% + 500 mA Line Regulation: Constant Voltage mode: 0.01% + 200  $\mu$ V Constant Current mode: 0.02% + 500 mA Remote Sensing: Supported for load voltage compensation Input: AC mains powered with grounded connection required Dimensions: 483 mm W  $\times$  127 mm H  $\times$  479.4 mm D Weight: 21.7 kg

**Key Features** Constant Voltage and Constant Current operating modes Over-voltage, over-current, and over-temperature protection Remote sensing for accurate voltage delivery at load terminals Rear-panel analog connector for local operation Internal fuse protection (not user accessible) Safety Class I instrument with protective earth terminal

**Typical Applications** High-power electronic device testing and characterization Motor and motor controller evaluation Industrial equipment power simulation Automated production test systems

**Compatibility & Integration** Remote programming capabilities enable integration into automated test environments. SCPI compatibility and interface options support system-level integration.

## Features & description

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From manufacturer datasheet

### **Built-in fast overvoltage crowbar with adjustable trip**

Remote resistance or voltage programming Remote sensing to the load Auto series, auto parallel, and auto tracking modes Technical Specifications Instrument Type: CV/CC regulated DC power supply Series Family: HP 6256B 6263B 6264B 6265B 6266B 6267B 6271B 6274B Output Voltage Rating: 0 to 60 V Output Current Rating: 0 to 3 A Operating Modes: constant voltage and constant current with automatic crossover Load Regulation Voltage: 0.01 percent plus 200  $\mu$ V class Load Regulation Current: 0.02 percent plus milliamp class Line Regulation Voltage: 0.01 percent plus 200  $\mu$ V class Line Regulation Current: 0.02 percent plus milliamp class Ripple Noise Voltage RMS: 200  $\mu$ V to 1 mV class by model Ripple Noise Voltage Peak Peak: 10 mV to 20 mV class Ripple Noise Current RMS: less than 5 mA on higher current models class Transient Recovery: less than 50  $\mu$ s class to within 10 mV Crowbar Range: approximately 10 percent to 110 percent of rated voltage DC Floating Voltage: up to 300 V above ground Front Output Terminal Rating: monitoring only, 3 A maximum AC Input: 115 Vac plus or minus 10 percent, 57 to 63 Hz standard Cabinet Height: 3.5 in full rack Cooling: convection except forced air on 6274B Remote Programming: resistance or voltage

## 6271B Characteristics / Specifications

| PARAMETER                      | VALUE                                                          |
|--------------------------------|----------------------------------------------------------------|
| Instrument Type                | CV/CC regulated DC power supply                                |
| Series Family                  | HP 6256B 6263B 6264B 6265B 6266B 6267B 6271B 6274B             |
| Output Voltage Rating          | 0 to 60 V                                                      |
| Output Current Rating          | 0 to 3 A                                                       |
| Operating Modes                | constant voltage and constant current with automatic crossover |
| Load Regulation Voltage        | 0.01 percent plus 200 uV class                                 |
| Load Regulation Current        | 0.02 percent plus milliamp class                               |
| Line Regulation Voltage        | 0.01 percent plus 200 uV class                                 |
| Line Regulation Current        | 0.02 percent plus milliamp class                               |
| Ripple Noise Voltage RMS       | 200 uV to 1 mV class by model                                  |
| Ripple Noise Voltage Peak Peak | 10 mV to 20 mV class                                           |
| Ripple Noise Current RMS       | less than 5 mA on higher current models class                  |
| Transient Recovery             | less than 50 us class to within 10 mV                          |
| Crowbar Range                  | approximately 10 percent to 110 percent of rated voltage       |
| DC Floating Voltage            | up to 300 V above ground                                       |
| Front Output Terminal Rating   | monitoring only, 3 A maximum                                   |
| AC Input                       | 115 Vac plus or minus 10 percent, 57 to 63 Hz standard         |
| Cabinet Height                 | 3.5 in full rack                                               |
| Cooling                        | convection except forced air on 6274B                          |
| Remote Programming             | resistance or voltage                                          |
| Remote Sensing                 | yes                                                            |
| Auto Parallel                  | two or three similar supplies                                  |
| Auto Series                    | two or three supplies                                          |
| Metering                       | front panel voltmeter and ammeter                              |

# 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.

| Specifications                 |                                                                |
|--------------------------------|----------------------------------------------------------------|
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| PARAMETER                      | VALUE                                                          |
| Instrument Type                | CV/CC regulated DC power supply                                |
| Series Family                  | HP 6256B 6263B 6264B 6265B 6266B 6267B 6271B 6274B             |
| Output Voltage Rating          | 0 to 60 V                                                      |
| Output Current Rating          | 0 to 3 A                                                       |
| Operating Modes                | constant voltage and constant current with automatic crossover |
| Load Regulation Voltage        | 0.01 percent plus 200 uV class                                 |
| Load Regulation Current        | 0.02 percent plus milliamp class                               |
| Line Regulation Voltage        | 0.01 percent plus 200 uV class                                 |
| Line Regulation Current        | 0.02 percent plus milliamp class                               |
| Ripple Noise Voltage RMS       | 200 uV to 1 mV class by model                                  |
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| Cooling                        | convection except forced air on 6274B                          |
| Remote Programming             | resistance or voltage                                          |
| Remote Sensing                 | yes                                                            |
| Auto Parallel                  | two or three similar supplies                                  |
| Auto Series                    | two or three supplies                                          |
| Metering                       | front panel voltmeter and ammeter                              |

#### Notes

From HP Operating and Service Manual Models 6256B, 6263B, 6264B, 6265B, 6266B, 6267B, 6271B, and 6274B Table 1-1 OUTPUT row for this model only.

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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NIST-traceable calibration · SAM registered ·  
30-day returns  
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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.