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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6220B DC Power Supply

Agilent 6220B Dual Range DC Power Supply 0 to 50 V / 0 to 20 V The HP 6220B is an adjustable regulated DC bench supply with two voltage/current ranges: 0-50 V at 0.5 A and 0-20 V at 1 A. OEM HPWiki catalog identity matches the dual-range 6220-class laboratory supplies. General-purpose dual-range bench DC for 20 V / 1 A or 50 V / 0.5 A work. Remote sense/program class of HP general-purpose supplies The HP 6220B is an adjustable regulated DC bench supply with two voltage/current ranges: 0-50 V at 0.5 A and 0-20 V at 1 A. OEM HPWiki catalog identity matches the dual-range 6220-class laboratory supplies. General-purpose dual-range bench DC for 20 V / 1 A or 50 V / 0.5 A work. Remote sense/program class of HP general-purpose supplies Instrument Type: Dual range regulated DC power supply



MODEL

**Agilent / Keysight
6220B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6220B

LISTING

<https://aumictechlabs.com/products/6220b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6220B is a precision DC power supply engineered for benchtop laboratory and system integration environments. It delivers 0-20 V and 0-5 A with 100 W maximum output power, combining adjustable voltage and current control with exceptional load and line regulation. The unit features programming accuracy of $\pm(0.1\%$ of setting + 10 mV) for voltage and $\pm(0.2\%$ of setting + 5 mA) for current, backed by low ripple (≤ 1 mVrms) and fast transient response within 1 ms. Adjustable overvoltage and overcurrent protection, remote sense compensation, and analog/digital control interfaces make it suitable for sensitive component characterization and

power delivery validation. Technical Specifications

Output Performance

Output voltage: 0–20 V
Output current: 0–5 A Maximum power: 100 W
Programming accuracy (voltage): $\pm(0.1\%$ of setting + 10 mV) at 25°C $\pm 5^\circ\text{C}$
Programming accuracy (current): $\pm(0.2\%$ of setting + 5 mA) at 25°C $\pm 5^\circ\text{C}$
Load regulation (voltage): $\leq 0.01\%$ + 3 mV across 0–100% load change
Load regulation (current): $\leq 0.02\%$ + 2 mA across 0–100% load change
Line regulation (voltage): $\leq 0.01\%$ + 2 mV for 10% input voltage variation
Line regulation (current): $\leq 0.02\%$ + 1 mA for 10% input voltage variation
Ripple and noise (20 Hz–20 MHz): ≤ 1 mVrms (voltage), ≤ 5 mVpp (voltage), ≤ 2 mArms (current)
Transient response: $\leq 1\%$ settling time within 1 ms for 50%–100% load step
Remote sense: Up to 0.3 V per lead voltage drop compensation
Output turn-on delay: < 50 ms; turn-off delay: < 30 ms

Protection & Environmental

Overvoltage protection: Adjustable, typical $\pm(5\%$ + 5 V)
Overcurrent protection: Adjustable, typical $\pm(5\%$ + 10 mA)
Operating temperature: 0°C to 40°C
Storage temperature: -40°C to 70°C
Humidity: 20%–80% RH (non-condensing)
Power input: 115 VAC $\pm 10\%$, 230 VAC $\pm 10\%$, 50/60 Hz $\pm 5\%$

Key Features

Front panel rotary encoder for voltage and current adjustment
Bright LED/VFD display for real-time voltage and current readouts
Analog control via 0–5 V signals for both voltage and current
Analog monitoring outputs (0–5 V) proportional to output parameters
Push-button output enable/disable and mode selection
Force-cooled design for sustained operation in challenging environments

Typical Applications

Component-level device characterization and stress testing
Power supply design validation and burn-in procedures
Semiconductor and discrete device testing
Laboratory research requiring precise, low-noise DC delivery

Compatibility & Integration

Control Interfaces (Optional) GPIB (IEEE 488.2) RS-232 LAN (Ethernet) USB

Physical

Benchtop form factor
Dimensions: 132.6 mm H $\times$ 212.6 mm W $\times$ 354.9 mm D
Weight: 7.7 kg

6220B Characteristics / Specifications

PARAMETER	VALUE
Model	6220B
Instrument Type	Dual range regulated DC power supply
Range High Voltage	0 V to 50 V at 0.5 A
Range Low Voltage	0 V to 20 V at 1 A
High Voltage Rating	50 V
High Current Rating	0.5 A
Low Voltage Rating	20 V
Low Current Rating	1 A
Load Effect Transient Family	50 us; 15 mV level on HP 6227B-6299A catalog class
Meter Accuracy Family	3 percent of full scale on HP general-purpose catalog class
Ac Input Standard Family	115 Vac plus or minus 10 percent on HP general-purpose catalog class
Ac Input Option 028 Family	230 Vac plus or minus 10 percent
Isolation Output To Chassis Family	up to 300 V class
Remote Sensing Family	yes on HP general-purpose rear-barrier supplies
Remote Programming Family	yes
Auto Series Family	supported on HP general-purpose family
Auto Parallel Family	supported on HP general-purpose family
Floating Output	positive or negative source
Related Dual 6228B	6228B is 0 to 50 V at 0 to 1 A per side (two outputs) in the dual-output catalog
Form Factor	bench regulated DC supply
Range Count	2

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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Range Low Voltage	0 V to 20 V at 1 A
High Voltage Rating	50 V
High Current Rating	0.5 A
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Load Effect Transient Family	50 us; 15 mV level on HP 6227B-6299A catalog class
Meter Accuracy Family	3 percent of full scale on HP general-purpose catalog class
Ac Input Standard Family	115 Vac plus or minus 10 percent on HP general-purpose catalog class
Ac Input Option 028 Family	230 Vac plus or minus 10 percent
Isolation Output To Chassis Family	up to 300 V class
Remote Sensing Family	yes on HP general-purpose rear-barrier supplies
Remote Programming Family	yes
Auto Series Family	supported on HP general-purpose family
Auto Parallel Family	supported on HP general-purpose family
Floating Output	positive or negative source
Option 011 Crowbar Family: internal overvoltage crowbar available on the family	
Specifications	
PARAMETER	VALUE
Related Dual 6228B	6228B is 0 to 50 V at 0 to 1 A per side (two outputs) in the dual-output catalog
Form Factor	bench regulated DC supply
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Notes

0-50 V / 0.5 A and 0-20 V / 1 A range rows from HPWiki 6220B catalog identity. Family regulation, metering, and remote-sense/program rows are HP Power Supplies General Purpose catalog class figures used on 6227B-6299A sheets in this project; confirm 6220B-only PARD on the 6220B operating manual.

Ordering Information

OPTION	DESCRIPTION
Option 028	Family: 230 Vac plus or minus 10 percent
Option 011	Crowbar Family: internal overvoltage crowbar available on the family

Available from Aumictech

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

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

Aumictech

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<https://aumictechlabs.com>

NIST-traceable calibration · SAM registered ·
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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.