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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6632B DC Power Supply

HP Agilent 6632B System DC Power Supply 20 V 5 A The Agilent/Keysight 6632B is a single-output linear-regulated GPIB DC power supply in the 6630B series. OEM datasheet ratings are 0 to 20 V and 0 to 5 A with full-current active downprogramming, dual-range microamp measurement, and SCPI control. Fast ATE 20 V class bias with microamp readback, R&D bench work with optional binding posts, and GPIB automated sourcing. Active downprogrammer sinks full rated 5 A The Agilent/Keysight 6632B is a single-output linear-regulated GPIB DC power supply in the 6630B series. OEM datasheet ratings are 0 to 20 V and 0 to 5 A with full-current active downprogramming, dual-range microamp measurement, and SCPI control. Fast ATE 20 V class bias with microamp readback, R&D bench work with optional binding posts, and GPIB automated sourcing. Active downprogrammer sinks full rated 5 A Dual range precision low current measurement



MODEL

**Agilent / Keysight
6632B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6632B

LISTING

<https://aumictechlabs.com/products/6632b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6632B is a 100 W single-output DC power supply engineered for automated test systems requiring precision, speed, and measurement capability. Delivering 0–20 V DC at 0–5 A, this instrument combines benchtop accessibility with system-level programmability to accelerate development cycles and improve test repeatability. High-speed output programming completes in under 4 ms, with response times as fast as 400 μ s in fast mode. The 6632B excels at

characterizing battery-powered devices, offering precision low-current measurement down to the microamp level and load regulation of 2 mV across the full 0–100% load range.

Technical Specifications

Output: 0–20 V DC, 0–5 A DC; 100 W maximum

Load Regulation: 2 mV / 1 mA (0–100% load)

Programming Accuracy (25°C ± 5°C): Voltage ±10 mV; Current ±(0.05% + 2 mA)

Voltmeter Accuracy: 0.07% + 15 mV

Ammeter Accuracy: 0.18% + 9 mA

Voltage Ripple & Noise (20 Hz–20 MHz): 0.3 mV RMS / 3 mV peak-to-peak (normal mode); 1 mV RMS / 10 mV peak-to-peak (fast mode)

Current Noise: 2 mA RMS

Output-Programming Response Time: <2 ms (10/90%, 90/10% rise/fall); 400 µs fast mode

Voltage Settling: Within 0.025% × rated voltage in <6 ms (2 ms fast mode)

Command Processing: Average 4 ms (GPIB, display disabled)

Measurement Time: Average 50 ms per voltage or current reading

Active Downprogrammer: Sinks rated current for rapid discharge to 0 V

Key Features

- Precision low-current measurement to microamp resolution
- Sub-4 ms high-speed output programming
- GPIB and RS-232 control interfaces with VXIplug&play driver support
- Low noise output: 0.3 mV RMS in standard mode
- Front-panel or rear-panel binding post options (Option 020)
- Isolation and polarity reversal relay capability (Option 760)
- Rackmount configurations with or without handles (Options 1CM, 1CP)

Typical Applications

- Battery device characterization and life testing
- Automated component and module validation
- Power supply sequencing and transient response measurement
- Low-current device development and compliance testing

Compatibility & Integration

Standard GPIB and RS-232 interfaces enable direct integration into automated test benches. VXIplug&play driver availability supports rapid software deployment. AC input voltage selectable for 100, 120, 220, or 230 VAC operation (47–63 Hz). Designed for Installation Category II, Pollution Degree 2 indoor environments up to 2000 m altitude.

6632B Characteristics / Specifications

PARAMETER	VALUE
Number of Outputs	1
GPIO	Yes
Output Voltage Rating	0 to 20 V
Output Current Rating	0 to 5 A
Programming Accuracy Voltage	10 mV at 25 C plus or minus 5 C
Programming Accuracy Current	0.05% + 2 mA at 25 C plus or minus 5 C
Ripple Voltage Normal Mode RMS	0.3 mV (20 Hz to 20 MHz)
Ripple Voltage Normal Mode Peak to Peak	3 mV
Ripple Voltage Fast Mode RMS	1 mV
Ripple Voltage Fast Mode Peak to Peak	10 mV
Ripple Current RMS	2 mA
DC Measurement Accuracy Voltage	0.03% + 3 mV
Low Current Measurement Accuracy	0.1% + 2.5 uA from minus 20 mA to +20 mA
High Current Measurement Accuracy Positive	0.2% + 0.5 mA
High Current Measurement Accuracy Negative	0.2% + 1.1 mA
Load Regulation Voltage	2 mV
Load Regulation Current	1 mA
Line Regulation Voltage	0.5 mV
Line Regulation Current	0.5 mA
Transient Response Time	less than 100 us (50 us fast mode) for up to 50% current step
Programming Resolution Voltage	5 mV
Programming Resolution Current	1.25 mA
Sink Current	5 A
Command Processing Time	4 ms average (display disabled)

PARAMETER	VALUE
Output Rise Fall Time	less than 2 ms (400 us fast mode)
Output Settle Time	less than 6 ms (2 ms fast mode) to 1 LSB
Measurement Time Average	50 ms
Output Terminal Isolation	plus or minus 240 Vdc from chassis ground
Size	425.5 mmWx 88.1 mmHx 364.4 mmDNet Weight: 12.7 kg (28 lb)
Input Power Full Load	3.5 A, 250 W

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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Low Current Measurement Accuracy	0.1% + 2.5 uA from minus 20 mA to +20 mA
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Notes
Specs from Agilent/Keysight 6630B Series data sheet column for 6632B.

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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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.