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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6433B DC Power Supply

Agilent 6433B SCR Regulated DC Power Supply 0 to 32 V 0 to 10 A The HP 6433B is an SCR-regulated CV/CC DC power supply. OEM operating manual Table 1-1 rates 0 to 32 Vdc and 0 to 10 A. Medium-power DC benches and racks using SCR preregulation for efficiency. Instrument Type: SCR regulated DC power supply The HP 6433B is an SCR-regulated CV/CC DC power supply. OEM operating manual Table 1-1 rates 0 to 32 Vdc and 0 to 10 A. Medium-power DC benches and racks using SCR preregulation for efficiency. Instrument Type: SCR regulated DC power supply AC Input: 105 to 125 Vac, 57 to 63 Hz, single phase



MODEL

**Agilent / Keysight
6433B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6433B

LISTING

<https://aumictechlabs.com/products/6433b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6433B is a programmable DC power supply delivering 0–36 V DC at 0–10 A with 360 W maximum output power. Built for both benchtop and automated test system integration, it operates in constant voltage/constant current (CV/CC) mode with continuously variable output adjustable to zero. The unit combines precision regulation - 0.5 mV line regulation and 2 mV load regulation on voltage - with low output noise (0.3 mV RMS, 3 mV peak-to-peak) and measurement accuracy of 0.03% + 2 mV for voltage and 0.1% + 2.5 μ A for current. Large analog meters provide real-time monitoring of output parameters. Technical Specifications Output: 0–36 V DC, 0–10 A DC, 360 W maximum CV/CC operation with output continuously variable to zero Line regulation: 0.5 mV (voltage), 1 mA (current) Load regulation: 2 mV (voltage), 2 mA

(current) Output noise: 0.3 mV RMS / 3 mV peak-to-peak (normal mode) Voltage measurement accuracy: 0.03% + 2 mV Current measurement accuracy: 0.1% + 2.5 μ A (low range) Operating efficiency: Up to 75% at full output Form factor: 425.5 mm W $\times$ 88.1 mm H $\times$ 364.4 mm D (16.8 in $\times$ 3.5 in $\times$ 14.3 in)Key Features Large analog meters for continuous voltage and current monitoring Remote programming via GPIB (IEEE-488) Auto-series/parallel operation supported Precision regulation and low ripple suitable for sensitive device testingTypical Applications Device characterization and burn-in testing Research laboratory power sourcing Automated test system integration Engineering bench applicationsCompatibility & Integration GPIB interface enables remote control and system automation. The 6433B is a legacy product; operating and service manuals are available for reference.

6433B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	SCR regulated DC power supply
Series Family	HP SCR-1P
Output Voltage Rating	0 to 32 Vdc
Output Current Rating	0 to 10 A
AC Input	105 to 125 Vac, 57 to 63 Hz, single phase
Input Current Power	7 A, 450 W max
Line Regulation Voltage	less than 18 mV for 105 to 125 Vac
Line Regulation Current	less than 100 mA for 105 to 125 Vac
Load Regulation Voltage	less than 36 mV for 0 to 10 A
Load Regulation Current	less than 100 mA for 0 to 32 V
Transient Recovery	less than 300 ms to within 200 mV for half-rated current step
Temperature Operating	stated in manual table
Remote Programming Voltage	200 ohms per volt plus or minus 1 percent
Remote Programming Current	250 ohms per ampere plus or minus 10 percent
Output Impedance DC to 0.5 Hz	less than 0.01 ohm
Output Inductance	1.0 uH
Metering	front panel voltmeter and ammeter
Cooling	convection class
Floating Output	either terminal may be grounded
Regulation Mode	SCR control of AC to main transformer
Protection	CV/CC crossover limiting
Mounting	bench or relay rack
Manual Table	Table 1-1 Specifications

6433B Specifications

PARAMETER	VALUE
Overview	The HP 6433B is an SCR-regulated CV/CC DC power supply. OEM operating manual Table 1-1 rates 0 to 32 Vdc and 0 to 10 A.
Constant voltage and constant current	Remote programming
Technical Specifications	Instrument Type: SCR regulated DC power supply
Notes	From HP Model 6433B DC Power Supply Operating and Service Manual Table 1-1.

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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From HP Model 6433B DC Power Supply Operating and Service Manual Table 1-1.	

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

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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.