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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6438B DC Power Supply

Agilent 6438B SCR Regulated DC Power Supply 0 to 60 V 0 to 5 A The HP 6438B is an SCR-regulated CV/CC DC power supply. OEM Model 6438B operating manual Table 1-1 rates 0 to 60 Vdc and 0 to 5 A with 105-125 Vac input, 6.5 A / 400 W max, and 300 ms transient recovery. Medium-power DC benches and racks using SCR regulation for 60 V / 5 A loads. Instrument Type: SCR regulated DC power supply The HP 6438B is an SCR-regulated CV/CC DC power supply. OEM Model 6438B operating manual Table 1-1 rates 0 to 60 Vdc and 0 to 5 A with 105-125 Vac input, 6.5 A / 400 W max, and 300 ms transient recovery. Medium-power DC benches and racks using SCR regulation for 60 V / 5 A loads. Instrument Type: SCR regulated DC power supply Ac Input: 105 to 125 Vac, 57 to 63 Hz, single phase



MODEL

**Agilent / Keysight
6438B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6438B

LISTING

<https://aumictechlabs.com/products/6438b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 6438B is a precision DC power supply delivering 0–60 Vdc at 0–5 A with 300 W maximum output. Built for research, development, and manufacturing environments, it combines programmable voltage and current control with constant voltage/constant current operation modes and comprehensive protection circuitry. Remote sensing and programming capabilities enable integration into automated test systems. Technical Specifications Output Power Voltage: 0–60 Vdc Current: 0–5 A Power: 300 W maximum Output Inductance: 1.0 μ H Constant Voltage Regulation Load Effect: <60 mV (0–5 A change) Source Effect: <30 mV (105–125 Vac input

change) Temperature Coefficient: 0.05% + 15 mV/°C Constant Current Regulation Load Effect: <50 mA (0–60 Vdc load change) Source Effect: <50 mA (105–125 Vac input change) Temperature Coefficient: 15 mA/°C AC Power Input Voltage: 105–125 Vac Frequency: 57–63 Hz Input Current: 6.5 A Power Consumption: 400 W maximum Ripple & Noise Peak-to-Peak Ripple: Line-frequency independent

Key Features CV/CC operation modes Remote sensing for accurate load-point regulation Remote programming via resistance or voltage source Overvoltage protection (optional internal crowbar) Overcurrent and overload protection with front-panel indication Over-temperature protection with automatic transformer disconnect Soft-start circuit limiting inrush current during power-on Phase-balance compensation permitting up to 8% line voltage imbalance

Physical Characteristics 19-inch rack-mount format Dimensions: 89 mm H × 483 mm W × 445 mm D (3.5" × 19" × 17.5")

Compatibility & Integration Supports remote sensing and remote programming interfaces for system integration. automated test environments and bench-level laboratory setups.

6438B Characteristics / Specifications

PARAMETER	VALUE
Model	6438B
Instrument Type	SCR regulated DC power supply
Series Family	HP SCR-1P
Output Voltage Rating	0 to 60 Vdc
Output Current Rating	0 to 5 A
Ac Input	105 to 125 Vac, 57 to 63 Hz, single phase
Input Current Power	6.5 A, 400 W max
Line Regulation Voltage	less than 30 mV for 105 to 125 Vac
Line Regulation Current	less than 50 mA for 105 to 125 Vac
Load Regulation Voltage	less than 60 mV for 0 to 5 A load change
Load Regulation Current	less than 50 mA for 0 to 60 Vdc load change
Ripple Noise Voltage Class	120 mV class listing on Table 1-1 continuation
Remote Programming Voltage	300 ohms per volt plus or minus 1 percent
Remote Programming Current	50 ohms per ampere
Transient Recovery	less than 300 ms to within 300 mV afterahalf-rated current step
Transient Amplitude	less than 1.0 V per ampere for load changes between 20 percent and 100 percent of rated current
Voltmeter Range	0 to 64 V
Ammeter Range	0 to 6 A
Cooling	convection class
Floating Output	either terminal may be grounded
Regulation Mode	SCR control of AC to main transformer
Related 6433B	6433B is 0 to 32 V at 0 to 10 A in the same SCR-1P family
Related 6443B	6443B is 0 to 120 V at 0 to 2.5 A in the same family
Manual Table	Table 1-1 Specifications

6438B Specifications

PARAMETER	VALUE
Applications	Medium-power DC benches and racks using SCR regulation for 60 V / 5 A loads.
Constant voltage and constant current	Remote programming 300 ohms per volt
Bench or relay rack operation	Front-panel 0-64 V and 0-6 A meters
Technical Specifications	Model: 6438B

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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Related 6433B	6433B is 0 to 32 V at 0 to 10 A in the same SCR-1P family
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Manual Table	Table 1-1 Specifications
Notes	
From HP Model 6438B DC Power Supply Operating Manual Table 1-1 (manufacturing code 6B). Load-regulation	

current-step wording follows the 0 to 5 A rating; the voltmeter is the published 0-64 V scale.

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.