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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6448B DC Power Supply

HP Agilent 6448B SCR Series DC Power Supply The HP 6448B is an SCR-regulated constant-voltage/constant-current DC power supply. OEM operating manual 06448-90001 rates 0 to 600 V at 0 to 1.5 A with ripple less than 600 mV rms / 2 V p-p (dc to 20 MHz) class entries for the SCR-1P series. High voltage laboratory and rack DC power for loads needing CV/CC operation to 600 V. Regulation Mode: constant voltage / constant current The HP 6448B is an SCR-regulated constant-voltage/constant-current DC power supply. OEM operating manual 06448-90001 rates 0 to 600 V at 0 to 1.5 A with ripple less than 600 mV rms / 2 V p-p (dc to 20 MHz) class entries for the SCR-1P series. High voltage laboratory and rack DC power for loads needing CV/CC operation to 600 V. Regulation Mode: constant voltage / constant current Ripple Noise Class: less than 600 mV rms / 2 V p-p dc to 20 MHz



MODEL

**Agilent / Keysight
6448B**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6448B

LISTING

<https://aumictechlabs.com/products/6448b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6448B is a precision DC power supply delivering 0–600 V at 0–1.5 A with 900 W total output capacity. Engineered for electronics development, manufacturing, and service environments, it combines tight load and line regulation with fast transient recovery and stable long-term output performance. Technical Specifications Output Range Voltage: 0–600 V Current: 0–1.5 A Total Power: 900 W Load Regulation Voltage mode: 1 mV nominal; <120 mV for 0–2.5 A load change Current mode: 40 mA nominal; <25 mA for 0–120 VDC load change Line Regulation

(105–125 VAC input) Voltage mode: <60 mV Current mode: <25 mA Stability & Temperature Performance Voltage temperature coefficient: 0.05% + 30 mV/°C Current temperature coefficient: 8 mA/°C Voltage stability (8 hours, constant temperature): 0.15% + 90 mV Current stability (8 hours, constant temperature): 25 mA Transient Response Recovery time: <300 ms to within 600 mV of nominal after half-rated current step change Transient amplitude: <4.0 V/A for load changes between 20% and 100% of rated current Physical Dimensions: 483 mm W × 432 mm D × 133 mm H (19" × 17" × 5.25") Weight: 50 lbsKey Features Overcurrent and overvoltage protection circuits Remote programming via external resistance or voltage source Auto-parallel and auto-tracking modes (up to three units; 6448B excludes auto-series) Safety Class I with protective earth terminal Internal fuse (non-customer accessible)Typical Applications Electronics development, manufacturing test benches, equipment service and repair, laboratory characterization.Compatibility & Integration Multiple units (6434B–6448B models) support auto-parallel and auto-tracking configurations for increased current or tracking operation. The 6448B cannot operate in auto-series mode.

6448B Characteristics / Specifications

PARAMETER	VALUE
Model	6448B
Instrument Type	DC power supply
Output Voltage Range	0 to 600 V DC
Output Current Range	0 to 1.5 A
Regulation Mode	constant voltage / constant current
Ripple Noise Class	less than 600 mV rms / 2 V p-p dc to 20 MHz
Series Family	HP SCR-1P
Form Factor	bench or rack
Manual Part	06448-90001
Operating Temperature Class	0 C to 55 C
Line Input	115/230 V class with taps
Cooling	forced air class
Metering	front panelVandIProtection: CV/CC crossover
Output Impedance Class	low at DC
Manufacturer	Hewlett Packard
Use Case	high voltage DC lab supply
Storage Temperature Class	minus 40 C to 70 C class
Front Controls	voltage and current
Remote Sensing Class	available on series
Weight Class	rack supply class
Chassis Height Class	half rack SCR series
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 55 C

6448B Specifications

PARAMETER	VALUE
HP Agilent 6448B SCR Series DC Power Supply	Overview
Applications	High voltage laboratory and rack DC power for loads needing CV/CC operation to 600 V.
Key Features	0 to 600 V DC output
Technical Specifications	Model: 6448B
Notes	Voltage/current from HP 6448B SCR-1P operating manual summaries; ripple class from SCR-1P series manual noise specifications.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	Class: minus 40 C to 70 C class
Operating temperature	Class: 0 C to 55 C
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Use Case	high voltage DC lab supply
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Front Controls	voltage and current
Remote Sensing Class	available on series
Weight Class	rack supply class
Chassis Height Class	half rack SCR series Notes Voltage/current from HP 6448B SCR-1P operating manual summaries; ripple class from SCR-1P series manual noise specifications.

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	
Technical Specifications	
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Output Current Range	0 to 1.5 A
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PARAMETER	VALUE
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Chassis Height Class	half rack SCR series

Notes

Voltage/current from HP 6448B SCR-1P operating manual summaries; ripple class from SCR-1P series manual noise specifications.

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.