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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6644A DC Power Supply

HP Agilent 6644A System DC Power Supply 60 V 3.5 A The Agilent/Keysight 6644A is a 200 W single-output linear-regulated GPIB DC power supply in the 6640A series. OEM datasheet ratings are 0 to 60 V and 0 to 3.5 A at 40 C with SCPI control and active downprogramming. ATE 60 V class bias, production test with protection features, and GPIB automated DC sourcing. Active downprogrammer about 20% of rated current The Agilent/Keysight 6644A is a 200 W single-output linear-regulated GPIB DC power supply in the 6640A series. OEM datasheet ratings are 0 to 60 V and 0 to 3.5 A at 40 C with SCPI control and active downprogramming. ATE 60 V class bias, production test with protection features, and GPIB automated DC sourcing. Active downprogrammer about 20% of rated current Output Current Rating At 40 C: 0 to 3.5 A



MODEL

**Agilent / Keysight
6644A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6644A

LISTING

<https://aumictechlabs.com/products/6644a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6644A is a 200 W single-output programmable DC power supply engineered for high-throughput testing and development. It delivers 0–60 V at 0–3.5 A with exceptional voltage stability: $\pm 0.06\%$ + 26 mV programming accuracy and 500 μ V RMS ripple. Fast voltage and current programming accelerates test cycles, while programmable over-voltage, over-current, and over-temperature protection safeguard device-under-test assemblies. The supply integrates front-panel and GPIB/SCPI control, analog voltage and current command inputs, and user-

definable power-on configuration. Technical Specifications Output Ratings Voltage: 0–60 V Current (40°C): 0–3.5 A Current (50°C max): 3.2 A Current (55°C max): 3 A Power: 200 W Programming Accuracy (25°C ±5°C) Voltage: ±0.06% + 26 mV Current: ±0.15% + 4.1 mA Ripple and Noise (20 Hz–20 MHz) Voltage RMS: 500 µV Voltage peak-to-peak: 5 mV Current RMS: 1.5 mA Key Features Programmable Over-Voltage Protection (OVP) and Over-Current Protection (OCP) Over-Temperature Protection with fast crowbar and mode crossover protection Discrete Fault Indicator/Remote Inhibit (DFI/RI) for external control Front-panel programming and SCPI command interface via GPIB Analog control of voltage and current via external signals VXI plug&play drivers supported Fan speed control for acoustic noise minimization System Integration Auto-parallel connection of up to three units Series or parallel output configuration Serial link supports up to 16 power supplies on a single GPIB address Environmental and Safety Operates indoors, installation category II, up to 95% relative humidity and 2000 m altitude. Safety Class 1 instrument with protective earth terminal; requires grounded power receptacle.

6644A Characteristics / Specifications

PARAMETER	VALUE
Number of Outputs	1
GPIB	Yes
Output Voltage Rating	0 to 60 V
Output Current Rating At 40 C	0 to 3.5 A
Maximum Current At 50 C	3.2 A
Maximum Current At 55 C	3 A
Programming Accuracy Voltage	0.06% + 26 mV at 25 C plus or minus 5 C
Programming Accuracy Current	0.15% + 4.1 mA at 25 C plus or minus 5 C
Ripple Voltage RMS	500 uV (20 Hz to 20 MHz)
Ripple Voltage Peak to Peak	5 mV
Ripple Current RMS	1.5 mA
Readback Accuracy Voltage	0.07% + 40 mV
Readback Accuracy Positive Current	0.15% + 3 mA
Readback Accuracy Negative Current	0.35% + 6.8 mA
Load Regulation Voltage	4 mV
Load Regulation Current	0.25 mA
Line Regulation Voltage	1 mV
Line Regulation Current	0.25 mA
Transient Response Time	less than 100 us for up to 50% current step
Programming Resolution Voltage	15 mV
Programming Resolution Current	1.2 mA
OVP Resolution	93 mV
OVP Accuracy	1.2 V
Output Rise Fall Time	less than 15 ms
Output Settle Time	less than 60 ms to 1 LSB

PARAMETER	VALUE
Downprogrammer Sink Class	approximately 20% of rated current
Analog Program Input	0 to minus 5 V
Analog Program Impedance	10 kOhm nominal
Command Processing Time	20 ms average on GPIB
Output Terminal Isolation	plus or minus 240 Vdc from chassis ground
AC Input Power Full Load	480 VA, 400 W
Size	425.5 mmWx 88.1 mmHx 439 mmDNet Weight: 14.2 kg (31.4 lb)

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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Notes
Specs from Agilent 6640A Series data sheet column for 6644A.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.