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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6641A DC Power Supply

HP Agilent 6641A System DC Power Supply 8 V 20 A The Agilent/Keysight 6641A is a 200 W single-output linear-regulated GPIB DC power supply in the 6640A series. OEM datasheet ratings are 0 to 8 V and 0 to 20 A at 40 C with active downprogramming at about 20% of rated current and SCPI control. High-current low-voltage ATE bias, production test with fast up/down programming, and GPIB automated DC sourcing with analog modulation inputs. 200 W autoranging class linear output envelope The Agilent/Keysight 6641A is a 200 W single-output linear-regulated GPIB DC power supply in the 6640A series. OEM datasheet ratings are 0 to 8 V and 0 to 20 A at 40 C with active downprogramming at about 20% of rated current and SCPI control. High-current low-voltage ATE bias, production test with fast up/down programming, and GPIB automated DC sourcing with analog modulation inputs. 200 W autoranging class linear output envelope Active downprogrammer sinks about 20% of rated current



MODEL

**Agilent / Keysight
6641A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6641A

LISTING

<https://aumictechlabs.com/products/6641a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6641A is a single-output, 200 W DC power supply engineered for high-throughput manufacturing test environments. It delivers 0–8 V at 0–20 A (ambient 40°C) with fast programming times and exceptional output stability. The unit combines precise voltage and current regulation with low ripple performance, making it suitable for demanding DUT characterization and power sequencing applications. Technical Specifications Output Ratings

Voltage: 0–8 V Current: 0–20 A (at 40°C); 18 A (at 50°C); 17 A (at 55°C) Power: 200 W
Programming Accuracy (25°C ±5°C) Voltage: 0.06% + 5 mV Current: 0.15% + 26 mA Readback Accuracy (25°C ±5°C) Voltage: 0.07% + 6 mV Positive current: 0.15% + 18 mA Negative current: 0.35% + 40 mA Output Ripple & Noise (20 Hz–20 MHz) Voltage RMS: 300 µV Voltage peak-to-peak: 3 mV Current RMS: 10 mA Regulation Load regulation: 1 mV Line regulation: 0.5 mV
Programming Response Rise/fall time (10/90%, 90/10%): <15 ms Settling time (within 1 LSB): <60 ms Transient recovery: <100 µs for 50% load step (within 0.1% rating or 20 mV)Key Features Fast crowbar and mode crossover protection safeguard DUTs from voltage and current surges Analog control of output voltage and current via 0 to –5 V input signals (10 kΩ nominal impedance) Fan-speed control minimizes acoustic noise during bench operation Parallel and series connection support for multi-unit system configurationsCompatibility & Integration GPIB interface with IEEE-488.2 and SCPI command support Serial link enables daisy-chaining up to 16 units to a single GPIB address VXI plug-and-play drivers available for automated system integration Front-panel and remote programming of output and protection settings

6641A Characteristics / Specifications

PARAMETER	VALUE
Number of Outputs	1
GPIO	Yes
Output Voltage Rating	0 to 8 V
Output Current Rating At 40 C	0 to 20 A
Maximum Current At 50 C	18 A
Maximum Current At 55 C	17 A
Programming Accuracy Voltage	0.06% + 5 mV at 25 C plus or minus 5 C
Programming Accuracy Current	0.15% + 26 mA at 25 C plus or minus 5 C
Ripple Voltage RMS	300 uV (20 Hz to 20 MHz)
Ripple Voltage Peak to Peak	3 mV
Ripple Current RMS	10 mA
Readback Accuracy Voltage	0.07% + 6 mV
Readback Accuracy Positive Current	0.15% + 18 mA
Readback Accuracy Negative Current	0.35% + 40 mA
Load Regulation Voltage	1 mV
Load Regulation Current	1 mA
Line Regulation Voltage	0.5 mV
Line Regulation Current	1 mA
Transient Response Time	less than 100 us for up to 50% current step
Programming Resolution Voltage	2 mV
Programming Resolution Current	6 mA
OVP Resolution	13 mV
OVP Accuracy	160 mV
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 Single-Output 200 W DC Power Supplies data sheet column for 6641A.

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 ·
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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.