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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6652A DC Power Supply

HP Agilent 6652A Single-Output 500 W System DC Power Supply The Agilent 6652A is a single-output linear-regulated GPIB DC power supply in the 6650A series. OEM datasheet ratings are 20 V / 25 A within a common 500 W envelope, with fast up/down programming, built-in measurements, and SCPI over GPIB. Manufacturing ATE bias where fast programming and low noise improve throughput, burn-in of assemblies needing crowbar and mode-crossover protection, and multi-supply serial-link racks sharing one GPIB address. The Agilent 6652A is a single-output linear-regulated GPIB DC power supply in the 6650A series. OEM datasheet ratings are 20 V / 25 A within a common 500 W envelope, with fast up/down programming, built-in measurements, and SCPI over GPIB. Manufacturing ATE bias where fast programming and low noise improve throughput, burn-in of assemblies needing crowbar and mode-crossover protection, and multi-supply serial-link racks sharing one GPIB address. Analog control of output voltage and current Fan-speed control to minimize acoustic noise



MODEL

**Agilent / Keysight
6652A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6652A

LISTING

<https://aumictechlabs.com/products/6652a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6652A is a 500 W single-output DC power supply engineered for automated test environments demanding stable, accurate power delivery with minimal noise. Part of the 665x series, it delivers 0–20 V and 0–25 A (at 40°C) with programming accuracy of 0.06% + 10 mV for voltage and 0.15% + 25 mA for current. The unit combines fast transient response, low ripple (3

mV peak-to-peak), and comprehensive protection circuits to streamline high-throughput test applications.

Technical Specifications

Output voltage: 0 to 20 V Output current: 0 to 25 A at 40°C; 22.5 A maximum at 50°C; 21.3 A maximum at 55°C Total power: 500 W Voltage programming accuracy (25°C ±5°C): 0.06% + 10 mV Current programming accuracy (25°C ±5°C): 0.15% + 25 mA Voltage ripple and noise (20 Hz to 20 MHz): 300 µV RMS, 3 mV peak-to-peak Current ripple and noise: 10 mA RMS Line regulation (voltage): 0.5 mV Load regulation (voltage): 1 mV Output programming rise/fall time (10/90%): <15 ms Transient response time: <100 µs to recover within 0.1% of rating (20 mV minimum) following 50% load current step Protection: Programmable over-voltage and over-current, over-temperature, fast crowbar, mode crossover

Key Features

GPIO interface with SCPI command support for remote and front-panel programming Analog control input (0 to -5 V, 10 kΩ nominal impedance) for voltage and current Serial link topology supporting up to 16 units on a single GPIO address Auto-parallel capability for three units; parallel/series output configuration options VXiplug&play driver support for test system integration Discrete Fault Indicator/Remote Inhibit (DFI/RI) for monitoring and control Fan speed control to reduce acoustic noise User-configurable power-on state Onboard self-test functionality

Typical Applications

Automated test systems, component characterization, device burn-in testing, and laboratory measurement environments where low-noise, programmable DC power with precise control and rapid load transient settling is required.

Compatibility & Integration

GPIO (IEEE-488.2) interface with full SCPI compliance. Analog programming option. VXiplug&play drivers included for simplified integration into automated test platforms.

6652A Characteristics / Specifications

PARAMETER	VALUE
Number of Outputs	1
GPIO	Yes
Output Voltage	0 to 20 V
Output Current at 40 C	0 to 25 A
Maximum Current at 50 C	22.5 A
Maximum Current at 55 C	21.3 A
Maximum Power Class	500 W
Programming Accuracy Current	0.15% + 25 mA
Ripple Voltage RMS 20 Hz to 20 MHz	300 μ V
Ripple Voltage Peak to Peak	3 mV
Ripple Current RMS	10 mA
Readback Accuracy Voltage	0.07% + 15 mV
Readback Accuracy Positive Current	0.15% + 26 mA
Readback Accuracy Negative Current	0.35% + 44 mA
Load Regulation Voltage	2 mV
Load Regulation Current	1 mA
Line Regulation Voltage	0.5 mV
Line Regulation Current	1 mA
Average Programming Resolution Voltage	5 mV
Average Programming Resolution Current	7 mA
OVP Programming Resolution	30 mV
OVP Accuracy	400 mV
Transient Response Time	Less than 100 μ s for up to 50% load step
Output Programming Rise Fall Time	Less than 15 ms (10/90% and 90/10%)

PARAMETER	VALUE
Settling Time to 1 LSB	Less than 60 ms
Command Processing Time	20 ms average
DC Floating Voltage	±240 VDC
AC Input Current at 100 VAC	12 A
AC Input Current at 120 VAC	10 A
AC Input Current at 220 VAC	5.7 A
AC Input Current at 240 VAC	5.3 A
Input Power Full Load	1380 VA, 1100 W
Input Power No Load	120 W
Size	425.5 mmWx 132.6 mmHx 497.8 mmDNet Weight: 25 kg (54 lb)
Shipping Weight	28 kg (61 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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PARAMETER	VALUE
Number of Outputs	1
GPIB	Yes
Output Voltage	0 to 20 V
Output Current at 40 C	0 to 25 A
Maximum Current at 50 C	22.5 A
Maximum Current at 55 C	21.3 A
Maximum Power Class	500 W
Programming Accuracy Voltage 25±5 C: 0.06% + 10 mV	
Programming Accuracy Current: 0.15% + 25 mA	
Ripple Voltage RMS 20 Hz to 20 MHz: 300 uV	
Specifications	
PARAMETER	VALUE
Ripple Voltage Peak to Peak	3 mV
Ripple Current RMS	10 mA
Readback Accuracy Voltage	0.07% + 15 mV
Readback Accuracy Positive Current	0.15% + 26 mA
Readback Accuracy Negative Current	0.35% + 44 mA
Load Regulation Voltage	2 mV
Load Regulation Current	1 mA
Line Regulation Voltage	0.5 mV
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Average Programming Resolution Voltage	5 mV
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Notes

Specs from Agilent 6650A Series Single-Output 500 W DC Power Supplies data sheet 5990-9305EN, 6652A column. Transient recovery within 0.1% of voltage rating or 20 mV, whichever is greater.

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.