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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6627A DC Power Supply

Agilent 6627A Multiple Output System DC Power Supply four 40 W outputs The Agilent 6627A is a multiple-output GPIB system DC power supply. OEM 662xA family tables list four 40 W dual-range outputs. Multi-rail ATE bias with isolated 40 W channels and GPIB control. Series/parallel combining for higher voltage Technical Specifications The Agilent 6627A is a multiple-output GPIB system DC power supply. OEM 662xA family tables list four 40 W dual-range outputs. Multi-rail ATE bias with isolated 40 W channels and GPIB control. Series/parallel combining for higher voltage Technical Specifications Instrument Type: Multiple-output system DC power supply



MODEL

**Agilent / Keysight
6627A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6627A

LISTING

<https://aumictechlabs.com/products/6627a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 6627A is a quad-output, precision system DC power supply delivering 40 W per output in a compact 3U rack form factor. Each of the four fully isolated outputs operates independently with dual-range capability, enabling flexible voltage-current trade-offs for diverse test requirements. Fast programming response, tight accuracy specifications, and active down-programming make this instrument well-suited for automated test equipment integration. Technical Specifications Output Configuration Four fully isolated outputs, 40 W per output (160 W total maximum) Low Range: 0–20 V, 0–2 A High Range: 0–50 V, 0–0.8 A Programming Accuracy: $\pm 0.06\%$ + 50 mV (voltage); $\pm 0.16\%$ + 20 mA (current) Readback Accuracy: $\pm 0.05\%$ + 50 mV

(voltage); $\pm 0.1\%$ + 4 mA (positive current); $\pm 0.2\%$ + 8 mA (negative current) Performance Characteristics Programming Response Time: 2 ms typical (0.1% settling on low range); 6 ms typical (high range) Ripple and Noise (20 Hz–20 MHz): 500 μ V RMS / 3 mV peak-to-peak in constant voltage mode; 1 mA RMS in constant current mode Load Regulation: 2 mV (voltage); 2 mA (current) Line Regulation: 0.05% of setting + 5 mV (voltage); 0.2% of setting + 10 mA (current) Overvoltage Protection: 100 mV typical (20 V range); 175 mV typical (50 V range) Remote Sensing: Up to 1 V drop per load lead Active Down-programmer: Sinks full rated current Physical & Environmental Dimensions: 425.5 mm W $\times$ 132.6 mm H $\times$ 497.8 mm D Weight: 17.4 kg net; 22.7 kg shipping Operating Temperature: 0°C to 55°C Altitude: Up to 2000 m Relative Humidity: Maximum 95% non-condensing Installation Category II; Pollution Degree 2 Key Features GPIB (IEEE 488) interface with full command set (SH1, AH1, T6, L4, SR1, RL1, PP1, DC1, DT0) SCPI programming language support VXIPlug&Play driver availability Optional 750 module for remote inhibit, relay control, and discrete fault indication Typical Applications Automated test systems requiring multiple independent, low-noise power sources with fast transient response and high accuracy. Ideal for device characterization, burn-in testing, and bench-level system validation. Compatibility & Integration GPIB connectivity enables direct integration into ATE architectures. SCPI command compatibility and VXIPlug&Play drivers support rapid test program development.

6627A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Multiple-output system DC power supply
Series Family	Agilent 6621A to 6627A
Number of Outputs	4
Output Power Per Channel	40 W class
Output Mix	four 40 W dual-range outputs
GPIO	Yes
DC Floating Voltage	plus or minus 240 Vdc
Remote Sensing Drop	up to 1 V per load lead
Command Processing Time	7 ms typical
Down Programming	sink about 10 percent above source limits above 2.5 V
Input Power	550 W max, 720 VA max
Size	425.5 mmWx 132.6 mmHx 497.8 mmDWeight Net: 17.4 kg (38 lb)
Weight Shipping	22.7 kg (50 lb)
Software Driver	VXIplug&play
Regulatory	UL 1244; IEC 61010-1; CE
Protection	OVP OCP OTP class
Readback	built-inVandI measurement
Transient Response Class	tens of microseconds family class
Store Recall	system nonvolatile states
Calibration	electronic over GPIO
Ripple Noise Class	low millivolt CV noise typical of 662xA family Notes From Agilent 662xA multiple-output family data sheet output combination row for 6627A (four 40 W outputs).

6627A Specifications

PARAMETER	VALUE
Overview	The Agilent 6627A is a multiple-output GPIB system DC power supply. OEM 662xA family tables list four 40 W dual-range outputs.
Applications	Multi-rail ATE bias with isolated 40 W channels and GPIB control.
Key Features	Four fully isolated 40 W outputs
Technical Specifications	Instrument Type: Multiple-output system DC power supply
Notes	From Agilent 662xA multiple-output family data sheet output combination row for 6627A (four 40 W outputs).

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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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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.