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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6680A DC Power Supply

Agilent Keysight 6680A 5000 W System DC Power Supply The Agilent/Keysight 6680A is a single-output 5000 W GPIB system DC power supply in the 6680A series. OEM 6680A Series datasheets list output ratings at 40 C with 1 percent perCderating to 55 C, SCPI programming, analog modulation inputs, and three-phase AC input. High-current burn-in and manufacturing test, long-term system DC bias, and ATE racks needing up to 5 kW programmable DC with GPIB. Analog voltage and current programming inputs The Agilent/Keysight 6680A is a single-output 5000 W GPIB system DC power supply in the 6680A series. OEM 6680A Series datasheets list output ratings at 40 C with 1 percent perCderating to 55 C, SCPI programming, analog modulation inputs, and three-phase AC input. High-current burn-in and manufacturing test, long-term system DC bias, and ATE racks needing up to 5 kW programmable DC with GPIB. Analog voltage and current programming inputs Serial link up to 16 supplies on one GPIB address



MODEL

**Agilent / Keysight
6680A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6680A

LISTING

<https://aumictechlabs.com/products/6680a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6680A is a 5000 W single-output DC power supply engineered for R&D, manufacturing, and automated test applications demanding precise voltage and current delivery. Operating from 0 to 5 V and 0 to 875 A, it combines low output ripple, fast transient response, and programmable control to support both bench-level characterization and high-volume production

testing. Technical Specifications Output Ratings Voltage: 0 to 5 V Current: 0 to 875 A Total output power: 5000 W Programming Accuracy (25°C ± 5°C) Voltage: 0.04% + 5 mV Current: 0.1% + 450 mA Readback Accuracy (25°C ± 5°C) Voltage: 0.05% + 7.5 mV Current: 0.1% + 600 mA Load and Line Regulation Voltage: 0.002% + 0.19 mV Current: 0.005% + 65 mA Output Ripple and Noise (20 Hz to 20 MHz, constant voltage mode) RMS voltage: 1.5 mV Peak-to-peak voltage: 10 mV Dynamic Response Transient recovery: within 150 mV in less than 900 µs (50%–100% or 100%–50% load step) Programming response time: 9 ms (excluding command processing) Input Power Three-phase 180–235 VAC with auto-ranging line voltage input Key Features Low output ripple and noise for sensitive DUT operation Selectable inductive load compensation Analog voltage and current control Built-in measurements and programmable control functions Output protection to safeguard devices under test Fan-speed control for reduced acoustic noise Integrated printer for test report generation and data logging Typical Applications Manufacturing test, long-term burn-in, R&D characterization, and automated test system integration for components and subsystems requiring stable, low-noise DC power delivery. Compatibility & Integration GPIB interface enables remote programming and measurement readback. Safety Class 1 design with protective earth ground; intended for Installation Category III environments.

6680A Characteristics / Specifications

PARAMETER	VALUE
Model	6680A
Number Of Outputs	1
Output Voltage	0 to 5 V
Output Current At 40 C	0 to 875 A
Current Derating	1 percent perCfrom 40 C to 55 C
Power Class	5000 W series
Voltage Programming Accuracy 25 Plus Or Minus 5 C	0.04 percent plus 5 mV
Current Programming Accuracy	0.1 percent plus 450 mA
CV Ripple Noise RMS 20 Hz To 20 MHz	1.5 mV
CV Ripple Noise Peak To Peak	10 mV
Voltage Readback Accuracy	0.05 percent plus 7.5 mV
Current Readback Accuracy	0.1 percent plus 600 mA
Load Line Regulation Voltage	0.002 percent plus 0.19 mV
Load Line Regulation Current	0.005 percent plus 65 mA
Transient Response	less than 900 us to within 150 mV for 100 percent to 50 percent or 50 percent to 100 percent load step
AC Input Line To Line	180 to 235 Vac 3 phase or 360 to 440 Vac 47 to 63 Hz
Input Power Maximum	7350 VA and 6000 W
No Load Power	160 W
Analog Program Voltage Input	0 to minus 5 V for voltage
Analog Program Current Input	0 to plus 5 V for current
Analog Input Impedance	30 kOhm or greater
GPIB Capabilities	SH1 AH1 T6 L4 SR1 RL1 PP0 DC1 DT1 E1 C0
Command Set	IEEE-488.2 and SCPI
Series Family	Agilent 6680A 5000 W

6680A Specifications

PARAMETER	VALUE
Agilent Keysight 6680A 5000 W System DC Power Supply	Overview
Applications	High-current burn-in and manufacturing test, long-term system DC bias, and ATE racks needing up to 5 kW programmable DC with GPIB.
Key Features	5000 W single output system supply
Analog voltage and current programming inputs	Serial link up to 16 supplies on one GPIB address
Technical Specifications	Model: 6680A

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

From Agilent 6680A Series Single-Output 5000 W DC Power Supplies data sheet model column for 6680A. Confirm three-phase AC wiring and current derating at ambient above 40 C.

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.