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Data Sheet
August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6684A/V50 DC Power Supply

Agilent / Keysight DC Power Supplies. Voltage: 0–40 V, Current: 0–128 A, Voltage: 0.04% + 40 mV.

MODEL **Agilent / Keysight 6684A/V50**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **6684A/V50**	LISTING **https://aumictechlabs.com/products/6684a-v50-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6684A/V50 is a single-output DC power supply delivering up to 5120 W of stable power for demanding test and measurement applications. It has 0–40 V and 0–128 A output with exceptionally low ripple and noise, eliminating the need for linear supplies in noise-sensitive environments. The unit supports both front-panel and remote control via GPIB and analog interfaces, with programmable over-voltage and over-current protection.Three units can be auto-paralleled for increased capacity, and outputs support series connection. CSA-certified and UL-listed for Installation Category III environments.Technical Specifications Output Ratings Voltage: 0–40 V Current: 0–128 A Total Power: 5120 W Single output Programming Accuracy (25 ± 5°C) Voltage: 0.04% + 40 mV Current: 0.1% + 65 mA Ripple and Noise (20 Hz to 20 MHz) Voltage RMS: 1.0 mV Voltage peak-to-peak: 10 mV AC Input 180–235 Vac (3-phase, line-to-line) with nominal 21.4 A RMS; maximum 27.7 A RMS 360–440 Vac (3-phase, line-to-line) with nominal 10.7 A RMS; maximum 14.3 A RMS Frequency: 47–63 Hz Output derated 5% at 50 Hz and below 200 Vac Environmental Operating humidity: maximum 95% relative humidity Altitude: up to 2000 m Bench-

top mountingKey Features Programmable over-voltage and over-current protection Over-temperature protection with discrete Fault Indicator/Remote Inhibit GPIB interface with SCPI and IEEE-488.2 compliance; 20 ms command processing Analog voltage and current control Fast up/down programming with rapid analog signal response Serial link capability: up to 16 units at one GPIB address User-definable power-on state and power-on self-test Auto-parallel support for three units Series-connectable outputsTypical Applications High-power testing, device characterization, burn-in operations, and load simulation requiring stable, low-noise DC power in the kilowatt range.Compatibility & Integration GPIB control enables integration into automated test systems. The V50 option delivers 50 V at 100 A; V60 variant offers 60 V at 80 A. Rack-mount kits available for standard installations.

6684AV50 Characteristics / Specifications

PARAMETER	VALUE
Model	6684A
Number Of Outputs	1
Output Voltage	0 to 40 V
Output Current At 40 C	0 to 128 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 40 mV
Current Programming Accuracy	0.1 percent plus 65 mA
CV Ripple Noise RMS 20 Hz To 20 MHz	1.0 mV
CV Ripple Noise Peak To Peak	10 mV
Voltage Readback Accuracy	0.05 percent plus 60 mV
Current Readback Accuracy	0.1 percent plus 90 mA
Load Line Regulation Voltage	0.002 percent plus 1.5 mV
Load Line Regulation Current	0.005 percent plus 9 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

6684AV50 Specifications

PARAMETER	VALUE
Agilent Keysight 6684A 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: 6684A

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 6684A. 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

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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.