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Data Sheet

August 1, 2026

HP

HP 6675A System DC Power Supply

HP / Agilent 6675A System DC Power Supply, 0-120 V, 0-18 A, 2000 W The HP / Agilent 6675A is a single-output, 2000 W class system DC power supply in the 6670A series. It provides 0 to 120 V and 0 to 18 A with GPIB programming, accurate built-in voltage and current readback, analog programming, and a combination of high efficiency with low ripple and noise for automated test systems. ATE and production test requiring up to 120 V / 18 A, burn-in and stress testing, system power with remote sense and SCPI/GPIB control, and applications needing fast recovery after load steps. The HP / Agilent 6675A is a single-output, 2000 W class system DC power supply in the 6670A series. It provides 0 to 120 V and 0 to 18 A with GPIB programming, accurate built-in voltage and current readback, analog programming, and a combination of high efficiency with low ripple and noise for automated test systems. ATE and production test requiring up to 120 V / 18 A, burn-in and stress testing, system power with remote sense and SCPI/GPIB control, and applications needing fast recovery after load steps.



MODEL

HP 6675A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

6675A

LISTING

<https://aumictechlabs.com/products/6675a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The HP 6675A is a single-output system DC power supply delivering 2160 W of regulated power for demanding test environments and production applications. This autoranging unit has 0-120 VDC at 0-18 ADC with low-noise output (1.9 mV RMS, 16 mV peak-to-peak) and tight programming accuracy: voltage to 0.04% + 120 mV and current to 0.1% + 12 mA. Full programmability via front

panel or GPIB/SCPI commands enables precise voltage and current control with 35 mV resolution, supported by integrated measurement capabilities and analog control inputs. The supply incorporates overvoltage and overcurrent protection to safeguard connected devices.

Technical Specifications
Output: 0–120 VDC, 0–18 ADC (autoranging) Total Power Rating: 2160 W Voltage Programming Accuracy: 0.04% + 120 mV (at 25°C ±5°C) Current Programming Accuracy: 0.1% + 12 mA Voltage Resolution: 35 mV Output Ripple & Noise (20 Hz–20 MHz): 1.9 mV RMS, 16 mV peak-to-peak Current Ripple: 12 mA RMS Input Voltage: 191–250 VAC, 47–63 Hz (Option 230) or 220/240 VAC, 50/60 Hz Operating Temperature Rating: 40°C for current rating Form Factor: Rack-mountable

Key Features
Programmable output voltage and current with analog control capability Built-in measurement for accurate readout of output voltage and current Overvoltage and overcurrent protection with advanced programmable safeguards Low-noise design with fan speed control to minimize acoustic emissions Rise/fall time equal to rated voltage/current ratio

Interfaces & Integration
GPIB primary interface supporting SCPI command set VXIplug&play driver support for test system integration Up to 16 units addressable on a single GPIB line Analog programming inputs for external voltage/current control

Typical Applications
Designed for production test environments, device characterization, and applications requiring stable, programmable DC power with integrated protection and measurement capabilities.

Features & description

From manufacturer datasheet

Features

- Single output: 0 to 120 V, 0 to 18 A (about 2160 W class)
- GPIB interface with programming and measured readback
- Low ripple and noise; high efficiency
- Analog control of voltage and current
- Fan-speed control to reduce acoustic noise
- Remote sensing; OVP and protection features of the 667xA series

6675A Characteristics / Specifications

PARAMETER	VALUE
Model	6675A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Single-output system DC power supply
Number of Outputs	1
GPIO	Yes Output Ratings
Output Voltage	0 to 120 V
Output Current	0 to 18 A
Power	2000 W class (120 V x 18 A = 2160 W) Programming Accuracy (25 C +/-5 C)
Voltage	0.002% + about 5 mV class
Current	0.005% + about 1 mA class Transient Response Less than 900 us for output voltage to recover within 100 mV following a 100% to 50% or 50% to 100% load current change Operational Notes Provide adequate AC mains and cooling for 2 kW class operation. Use remote sense for accurate load voltage. Observe derating and connection practices in the 6670A series user documentation.
Voltage rms	1.9 mV
Current rms	12 mA Readback Accuracy (25 C +/-5 C)
Single output	0 to 120 V, 0 to 18 A (about 2160 W class)

6675A Specifications

PARAMETER	VALUE
Key Features	- Single output: 0 to 120 V, 0 to 18 A (about 2160 W class)
Technical Specifications	Model: 6675A
Output Ratings	Output Voltage: 0 to 120 V
Ripple and Noise (20 Hz to 20 MHz)	Voltage rms: 1.9 mV
Load And Line Regulation	Voltage: 0.002% + about 5 mV class
Transient Response	Less than 900 us for output voltage to recover within 100 mV following a 100% to 50% or 50% to 100% load current change

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

Specifications

PARAMETER	VALUE
Model	6675A
Manufacturer	Hewlett-Packard / Agilent / Keysight
Instrument Type	Single-output system DC power supply
Number of Outputs	1
GPIB	Yes

Output Ratings

Specifications

PARAMETER	VALUE
Output Voltage	0 to 120 V
Output Current	0 to 18 A
Power	2000 W class (120 V x 18 A = 2160 W)

Programming Accuracy (25 C +/-5 C)
Voltage: 0.04% + 120 mV
Current: 0.1% + 12 mA

Ripple and Noise (20 Hz to 20 MHz)
Voltage rms: 1.9 mV
Voltage peak-to-peak: 16 mV
Current rms: 12 mA

Readback Accuracy (25 C +/-5 C)
Voltage: 0.05% + 180 mV
Current: 0.1% + 25 mA class (series table)

Load And Line Regulation
Voltage: 0.002% + about 5 mV class
Current: 0.005% + about 1 mA class

Transient Response
Less than 900 us for output voltage to recover within 100 mV following a 100% to 50% or 50% to 100% load current change

Operational Notes
Provide adequate AC mains and cooling for 2 kW class operation. Use remote sense for accurate load voltage. Observe derating and connection practices in the 6670A series user documentation.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.