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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6553A DC Power Supply

Agilent 6553A Analog Programmable DC Power Supply 0 to 35 V 0 to 15 A The Agilent/HP 6553A is a single-output analog-programmable DC power supply. OEM Series 654xA/655xA/657xA operating manual rates 0 to 35 V and 0 to 15 A (500 W). Manufacturing and R&D DC rails with analog programming, OVP, and local/remote sensing. Auto-parallel of identical models on 2000 W class The Agilent/HP 6553A is a single-output analog-programmable DC power supply. OEM Series 654xA/655xA/657xA operating manual rates 0 to 35 V and 0 to 15 A (500 W). Manufacturing and R&D DC rails with analog programming, OVP, and local/remote sensing. Auto-parallel of identical models on 2000 W class Instrument Type: Analog programmable DC power supply



MODEL

**Agilent / Keysight
6553A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6553A

LISTING

<https://aumictechlabs.com/products/6553a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 6553A is a 500 W single-output DC power supply engineered for electronic testing and development. Its linear topology delivers extremely low noise and ripple essential for precision measurement work. The unit operates from 0 to 35 V and 0 to 15 A, with full front-panel and analog programming control for voltage and current. Fast up- and down-programming capability accelerates test cycles while integrated protection - including fast crowbar, CV/CC mode crossover, and over-voltage protection - safeguards load devices. Technical Specifications Output: 0-35 V, 0-15 A (500 W at rated conditions; 525 W maximum) Programming accuracy

(25°C ±5°C): voltage 0.06% + 15 mV; current 0.15% + 13 mA Ripple and noise (20 Hz to 20 MHz): 400 µV rms / 4 mV peak-to-peak (voltage); 5 mA rms (current) Load regulation: 3 mV (voltage), 0.5 mA (current) Line regulation: 1 mV (voltage), 0.75 mA (current) Temperature-dependent current limits: 15 A @ 40°C; 13.5 A @ 50°C; 12.8 A @ 55°C AC input: 100, 220, or 240 VAC (47–63 Hz); 200–400 VAC option available

Key Features Front-panel and analog programming interfaces for manual and automated control Fast crowbar and over-voltage protection for device safety CV/CC mode crossover for seamless constant-voltage and constant-current transitions Low output noise ideal for sensitive analog and RF circuit testing

Typical Applications Electronic circuit development and validation Precision measurement and characterization work Device stress testing and thermal analysis Lab-bench power delivery for medium-current loads

Compatibility & Integration Optional rack-mount kits (Models 908, 909) enable integration into standard 19-inch equipment racks. Operating manuals are supplied; service documentation available separately. Though manufacturer-listed as obsolete, the 6553A remains suitable for applications requiring its specific voltage, current, and noise performance.

6553A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Analog programmable DC power supply
Series Family	Agilent 654xA 655xA 657xA
Number of Outputs	1
GPIO Interface	No
Output Voltage Rating	0 to 35 V
Output Current Rating	0 to 15 A
Maximum Power Class	500 W
Current Derating	1 percent perCfrom 40 C to 55 C where stated
Programming Accuracy Voltage 25 C	0.06 percent plus 15 mV
Programming Accuracy Current	0.14 to 0.15 percent plus 13 mA
Ripple Noise Voltage RMS 20 Hz to 20 MHz	400 uV
Ripple Noise Voltage Peak Peak	4 mV
Ripple Noise Current RMS	5 mA
Readback Accuracy Voltage	0.07 percent plus 25 mV
Readback Accuracy Positive Current	0.15 percent plus 15 mA
Transient Response Time	less than 100 us for up to 50 percent load step (654/655); less than 900 us to within 100 mV (657)
DC Floating Voltage	plus or minus 240 Vdc
Remote Sensing	yes
Overvoltage Protection	programmable
Analog Programming VP IP	yes
Current Monitor IM	yes
AC Input	100/120/220/230/240 Vac selectable class
Size Class	500 W chassis
Operating Temperature	0 to 55 C warranted with resistive load

6553A Specifications

PARAMETER	VALUE
Applications	Manufacturing and R&D DC rails with analog programming, OVP, and local/remote sensing.
Key Features	Analog voltage and current programming
Technical Specifications	Instrument Type: Analog programmable DC power supply
Notes	Agilent 654xA/655xA OM Table 1-1a column 6553A.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	0 to 55 C warranted with resistive load
Operating Temperature	0 to 55 C warranted with resistive load

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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Maximum Power Class	500 W
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Programming Accuracy Voltage 25 C	0.06 percent plus 15 mV
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Ripple Noise Voltage Peak Peak	4 mV
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Transient Response Time	less than 100 us for up to 50 percent load step (654/655); less than 900 us to within 100 mV (657)
DC Floating Voltage	plus or minus 240 Vdc
Remote Sensing	yes
Overvoltage Protection	programmable
Analog Programming VP IP	yes
Current Monitor IM	yes
AC Input	100/120/220/230/240 Vac selectable class
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PARAMETER	VALUE
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Operating Temperature	0 to 55 C warranted with resistive load
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Notes

Agilent 654xA/655xA OM Table 1-1a column 6553A.

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.