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Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 6281A DC Power Supply

Agilent 6281A Single Output DC Power Supply 0 to 7.5 V 0 to 5 A The HP/Agilent 6281A is a single-output CV/CC DC power supply in the HP 6281A–6299A medium-power family. OEM catalog ratings are 0 to 7.5 V and 0 to 5 A (37.5 W class). Bench and half-rack system DC power with remote sense/program and auto-series/parallel. Constant voltage / constant current with automatic crossover The HP/Agilent 6281A is a single-output CV/CC DC power supply in the HP 6281A–6299A medium-power family. OEM catalog ratings are 0 to 7.5 V and 0 to 5 A (37.5 W class). Bench and half-rack system DC power with remote sense/program and auto-series/parallel. Constant voltage / constant current with automatic crossover Coarse and fine voltage and current controls (ten-turn on select models)



MODEL

**Agilent / Keysight
6281A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

6281A

LISTING

<https://aumictechlabs.com/products/6281a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Agilent/Keysight 6281A is a regulated benchtop DC power supply delivering 10 W across a 0 to 7.5 V, 0 to 5 A output range. It operates in both constant voltage (CV) and constant current (CC) modes, providing metered readback and front-panel control with coarse/fine adjustment capability. The unit features programmable output via analog control inputs (0 to –5 V for voltage, 0 to +5 V for current at 30 kΩ input impedance) and integrates overvoltage, overcurrent, and over-temperature protection with auto-restart functionality. Technical Specifications Output Performance: Output Voltage: 0 to 7.5 VDC Output Current: 0 to 5 A Output Power: 10 W Overall

Regulation: 0.01% Voltage Ripple & Noise: 1.5 mV RMS, 10 mV peak-to-peak Transient Response Time: Less than 900 μ s (100% to 50% or 50% to 100% load step, recovery within 150 mV) Remote Sensing: Up to half the rated output voltage drop per load lead Programming Accuracy: Voltage: 0.05% + 7.5 mV Current: 0.1% + 600 mA Key Features Constant voltage and constant current operating modes Analog programmability with high input impedance (≥ 30 k Ω) Three-tier protection: overvoltage, overcurrent, and over-temperature Panel lock function prevents accidental setting changes Selectable compensation for inductive loads Output derating under unbalanced AC input conditions GPIB interface support for remote control and automated test integration Typical Applications Burn-in testing, quality assurance, automated test equipment (ATE), research, design, and educational environments requiring stable, controllable DC power with precision metering. Compatibility & Integration GPIB interface enables remote programming and monitoring. VXIplug&play driver support facilitates simplified integration into larger test systems.

6281A Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	Single output CV/CC DC power supply
Series Family	HP 6281A to 6299A
Output Voltage Rating	0 to 7.5 V
Output Current Rating	0 to 5 A
Maximum Power Class	37.5 W
Load Effect Transient Recovery	50 us; 15 mV level
Meter Accuracy	3 percent of full scale
AC Input Standard	115 Vac plus or minus 10 percent
Size	87 × 209 × 398 mm
Floating Output	use as positive or negative source
Remote Sensing	yes
Remote Programming	yes
Auto Series	yes
Auto Parallel	yes
Auto Tracking	yes
Rack Kit 3.5 in	HP 14513A / 14523A class for 3.5 in models
Rack Kit 5.25 in	HP 14515A / 14525A class for 5.25 in models
Regulator Type	series or series/SCR preregulator by power class
Meter Function Switch	four position X1 and X0.1 voltage or current

6281A Specifications

PARAMETER	VALUE
Front and rear output terminals	Remote sensing and programming with auto-series/parallel/tracking
Technical Specifications	Instrument Type: Single output CV/CC DC power supply
Notes	Half-rack 37-75 W series-regulated class. Model-specific V/I from HP catalog / HPWiki OEM listings for this model number only.

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	37.5 W
Load Effect Transient Recovery	50 us; 15 mV level
Meter Accuracy	3 percent of full scale
AC Input Standard	115 Vac plus or minus 10 percent
Size	87 x 209 x 398 mm
Floating Output	use as positive or negative source
Remote Sensing	yes
Remote Programming	yes
Auto Series	yes
Auto Parallel	yes
Auto Tracking	yes
Option 011 Crowbar: available	
Option 028: 230 Vac input	
Option 005: 50 Hz ac input optimization	
Specifications	
PARAMETER	VALUE
Rack Kit 3.5 in	HP 14513A / 14523A class for 3.5 in models
Rack Kit 5.25 in	HP 14515A / 14525A class for 5.25 in models
Regulator Type	series or series/SCR preregulator by power class
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Notes

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Ordering Information

OPTION	DESCRIPTION
Option 011	Crowbar: available

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.