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**Data Sheet**

August 15, 2026

AGILENT / KEYSIGHT

# Agilent/Keysight 6285A DC Power Supply

Agilent HP 6285A DC Power Supply 0 to 20 V 0 to 5 A The HP/Agilent 6285A is a medium-power CV/CC DC supply rated 0 to 20 V and 0 to 5 A in the HP 6281A to 6299A family. OEM descriptions cite a transistor series-regulator with triac preregulator for high efficiency, excellent regulation, low ripple and noise, and moderate programming speeds in a full-rack-width package. General ATE and bench DC bias to 20 V at up to 5 A, remote-sensed loads, and systems needing CV/CC with rear barrier programming terminals. The HP/Agilent 6285A is a medium-power CV/CC DC supply rated 0 to 20 V and 0 to 5 A in the HP 6281A to 6299A family. OEM descriptions cite a transistor series-regulator with triac preregulator for high efficiency, excellent regulation, low ripple and noise, and moderate programming speeds in a full-rack-width package. General ATE and bench DC bias to 20 V at up to 5 A, remote-sensed loads, and systems needing CV/CC with rear barrier programming terminals. Transistor series regulator with triac preregulator



MODEL

**Agilent / Keysight  
6285A**

CALIBRATION

**Available on  
request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**6285A**

LISTING

<https://aumictechlabs.com/products/6285a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

## This unit

The Agilent/Keysight 6285A is a discontinued DC power supply that delivers regulated constant voltage and constant current output. Although obsolete, the unit remains serviceable through Keysight Service Centers for repair and calibration. It exemplifies the precision power delivery architecture characteristic of Agilent/Keysight's bench and system integration supplies. Technical

**Specifications** The 6285A operates as a dual-mode power source, providing both constant voltage (CV) and constant current (CC) regulation. Output noise performance aligns with the low-noise standard of the product line, with ripple and noise specifications typically in the range of 500  $\mu$ Vrms and 5 mV peak-to-peak for CV mode, and 5 mA rms for CC mode. Line and load regulation are maintained at approximately 0.01% plus 1 mV to 2 mV across the operating range. The supply incorporates Over Voltage Protection (OVP) and Over Current Protection (OCP) to safeguard connected test equipment. Output terminals are provided at both front and rear panel locations. Remote sensing and programming capabilities enable precise voltage and current control at the load terminals, accommodating multi-unit system configurations through auto-series, auto-parallel, and auto-tracking functions.

**Key Features** Dual CV/CC output modes for flexible load matching Front and rear output terminals for system flexibility Remote sensing for load-terminal regulation OVP and OCP protection architecture Auto-series, auto-parallel, and auto-tracking capability Analog voltage and current controls

**Typical Applications** The 6285A serves component testing, circuit validation, and laboratory power delivery where stable, regulated DC output is required. Its protection features make it suitable for developmental testing environments where Device Under Test (DUT) protection is critical.

**Compatibility & Integration** The supply operates within standard indoor environmental limits: 0 °C to 40 °C for full rated output, with derated performance to 55 °C. Humidity tolerance extends to 95% relative humidity. As a Safety Class I instrument, it requires connection to a grounded power cable. Repair and calibration support remain available through Keysight Service Centers.

## 6285A Characteristics / Specifications

| PARAMETER                                   | VALUE                                               |
|---------------------------------------------|-----------------------------------------------------|
| Model                                       | 6285A                                               |
| Instrument Type                             | Single output CV/CC DC power supply                 |
| Series Family                               | HP 6281A to 6299A                                   |
| Output Voltage Rating                       | 0 to 20 V                                           |
| Output Current Rating                       | 0 to 5 A                                            |
| Maximum Power Class                         | 100 W                                               |
| Regulator Topology                          | transistor series regulator with triac preregulator |
| Operating Modes                             | constant voltage and constant current               |
| Load Effect Transient Recovery Class Family | 50 us class on related 628x sheets                  |
| Meter Accuracy Class Family                 | 3 percent of full scale                             |
| Ac Input Standard Class Family              | 115 Vac plus or minus 10 percent                    |
| Remote Sensing                              | yes                                                 |
| Remote Programming                          | yes                                                 |
| Auto Series                                 | yes                                                 |
| Auto Parallel                               | yes                                                 |
| Auto Tracking                               | yes                                                 |
| Floating Output                             | use as positive or negative source                  |
| Package Width                               | full rack width                                     |
| Front Output                                | binding posts class                                 |
| Rear Output                                 | barrier strip for sense and programming             |
| Crowbar Option Class Family                 | Option 011 available on family                      |
| Line Option 0                               | 230 Vac input                                       |
| Meter Function Switch Class Family          | voltage or current ranges                           |
| Cooling                                     | forced or convection per revision                   |

| PARAMETER           | VALUE                    |
|---------------------|--------------------------|
| Overload Protection | CV/CC crossover limiting |

# 6285A Specifications

| PARAMETER                                           | VALUE                                                                                                                                       |
|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Agilent HP 6285A DC Power Supply 0 to 20 V 0 to 5 A | Overview                                                                                                                                    |
| Applications                                        | General ATE and bench DC bias to 20 V at up to 5 A, remote-sensed loads, and systems needing CV/CC with rear barrier programming terminals. |
| Constant voltage and constant current operation     | Remote sensing and remote programming terminals                                                                                             |
| Technical Specifications                            | Model: 6285A                                                                                                                                |

# 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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| PARAMETER                                   | VALUE                                               |
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| Output Current Rating                       | 0 to 5 A                                            |
| Maximum Power Class                         | 100 W                                               |
| Regulator Topology                          | transistor series regulator with triac preregulator |
| Operating Modes                             | constant voltage and constant current               |
| Load Effect Transient Recovery Class Family | 50 us class on related 628x sheets                  |
| Meter Accuracy Class Family                 | 3 percent of full scale                             |
| Ac Input Standard Class Family              | 115 Vac plus or minus 10 percent                    |
| Remote Sensing                              | yes                                                 |
| Remote Programming                          | yes                                                 |
| Auto Series                                 | yes                                                 |
| Auto Parallel                               | yes                                                 |
| Auto Tracking                               | yes                                                 |
| Floating Output                             | use as positive or negative source                  |
| Package Width                               | full rack width                                     |
| Front Output                                | binding posts class                                 |
| Rear Output                                 | barrier strip for sense and programming             |
| Crowbar Option Class Family                 | Option 011 available on family                      |
| Line Option 028                             | 230 Vac input                                       |
| Meter Function Switch Class Family          | voltage or current ranges                           |
| Cooling                                     | forced or convection per revision                   |
| Overload Protection                         | CV/CC crossover limiting                            |

#### Notes

Voltage/current ratings and topology from Agilent/Keysight 6285A product literature. Family regulation/meter/remote rows from HP 6281A-6299A medium-power catalog class used by related 6284A OEM file; confirm exact ripple numbers in the 6285A Operating and Service Manual.

# Ordering Information

| OPTION     | DESCRIPTION         |
|------------|---------------------|
| Option 011 | available on family |

## Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

**Aumictech**  
788 S 500 E, Pleasant Grove, UT 84062  
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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.