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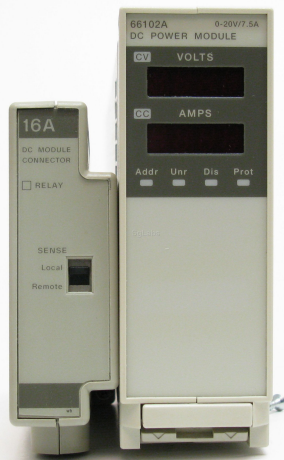
Data Sheet

August 14, 2026

AGILENT / KEYSIGHT

Agilent/Keysight 66102A DC Power Supply

Agilent Keysight 66102A 150 W DC Power Module 20 V 7.5 A The Agilent/Keysight 66102A is a 150 W DC power module for the 66000A modular power system mainframe. OEM 66000A Modular Power System data sheets list 0 to 20 V / 0 to 7.5 A output, GPIB-programmable V/I with readback, OVP, and LIST-mode system features when installed in the eight-slot 1200 W mainframe. Automated multi-output DC test in 66000A mainframes, reconfigurable ATE power channels, and 20 V class module substitution in 150 W slots. LIST mode and advanced triggering via mainframe The Agilent/Keysight 66102A is a 150 W DC power module for the 66000A modular power system mainframe. OEM 66000A Modular Power System data sheets list 0 to 20 V / 0 to 7.5 A output, GPIB-programmable V/I with readback, OVP, and LIST-mode system features when installed in the eight-slot 1200 W mainframe. Automated multi-output DC test in 66000A mainframes, reconfigurable ATE power channels, and 20 V class module substitution in 150 W slots. LIST mode and advanced triggering via mainframe Optional isolation and polarity relays at system level

**MODEL****Agilent / Keysight
66102A****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****66102A****LISTING**<https://aumictechlabs.com/products/66102a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight 66102A is a 150 W DC power module engineered for integration into the 66000A Power System Mainframe. This modular supply delivers 0–20 Vdc at 0–7.5 A with programming accuracy of 0.03% + 8 mV (voltage) and 0.03% + 3 mA (current). Its compact form

factor enables up to eight outputs in 4U of rack space, making it ideal for automated test equipment and production environments.

Technical Specifications

Output voltage: 0–20 Vdc
Output current: 0–7.5 A
Maximum power: 150 W
Programming accuracy (at 25°C ±5°C): voltage 0.03% + 8 mV; current 0.03% + 3 mA
Output ripple and noise (20 Hz to 20 MHz): 3 mV RMS / 7 mV peak-to-peak (voltage); 4 mA RMS (current)
Operating altitude: up to 2000 m
Maximum relative humidity: 95%

Key Features

GPIO programmable voltage and current control with full SCPI compliance
Programmable over-voltage, over-current, and over-temperature protection
Discrete fault indicator and remote inhibit capability
Built-in self-test initiated at power-up or via GPIO command
Electronic calibration via GPIO or front-panel keyboard
Five nonvolatile store-recall states per output for preset configurations
User-definable power-on state for repeatable system startup
High-accuracy read-back of voltage and current measurements
VXI Plug&Play driver support for VXI system integration
Optional 760 isolation and polarity relays for enhanced switching control
Low-noise output engineering ensures signal integrity

System Integration

The 66102A integrates directly into the 66000A Power System Mainframe, which accepts up to eight modules. Quick-disconnect connectors on each module allow field installation and removal without mainframe cabling disruption. GPIO connectivity supports SH1, AH1, TE6, LE4, SR1, RL1, PPO, DC1, and DT1 bus configurations for seamless test system deployment.

Features & description

From manufacturer datasheet

Built-in voltage and current measurement

Programmable OVP LIST mode and advanced triggering via mainframe Optional isolation and polarity relays at system level Technical Specifications Model: 66102A Output Voltage At 40 C: 0 to 20 V Output Current At 40 C: 0 to 7.5 A Maximum Power: 150 W Voltage Programming Accuracy 25 Plus Or Minus 5 C: 0.03 percent plus 8 mV Current Programming Accuracy: 0.03 percent plus 3 mA Voltage Readback Accuracy: 0.02 percent plus 8 mV class per module table Current Readback Accuracy: 0.02 percent plus 3 mA class Average Programming Resolution Voltage: 5.9 mV Average Programming Resolution Current: 2.3 mA OVP Programming Resolution: 120 mV OVP Accuracy: 500 mV Mainframe Compatibility: 66000A eight-slot 1200 W system Maximum Power Per Module Family: 150 W System Total Power With Full Mainframe: 1200 W Ripple Noise CV Class: per 66000A module table for 66102A Remote Control: GPIB via 66000A mainframe Self Test: at power-up or GPIB command Store Recall States: five nonvolatile per output Electronic Calibration: over GPIB or keyboard Series Family: Agilent 6610xA modules for 66000A Over Temperature Protection: yes User Definable Power On State: yes DFI RI Support: yes at system level Electronic Calibration Path: GPIB or keyboard

66102A Characteristics / Specifications

PARAMETER	VALUE
Model	66102A
Output Voltage At 40 C	0 to 20 V
Output Current At 40 C	0 to 7.5 A
Maximum Power	150 W
Voltage Programming Accuracy 25 Plus Or Minus 5 C	0.03 percent plus 8 mV
Current Programming Accuracy	0.03 percent plus 3 mA
Voltage Readback Accuracy	0.02 percent plus 8 mV class per module table
Current Readback Accuracy	0.02 percent plus 3 mA class
Average Programming Resolution Voltage	5.9 mV
Average Programming Resolution Current	2.3 mA
OVP Programming Resolution	120 mV
OVP Accuracy	500 mV
Mainframe Compatibility	66000A eight-slot 1200 W system
Maximum Power Per Module Family	150 W
System Total Power With Full Mainframe	1200 W
Ripple Noise CV Class	per 66000A module table for 66102A
Remote Control	GPIB via 66000A mainframe
Self Test	at power-up or GPIB command
Store Recall States	five nonvolatile per output
Electronic Calibration	over GPIB or keyboard
Series Family	Agilent 6610xA modules for 66000A
Over Temperature Protection	yes
User Definable Power On State	yes
DFI RI Support	yes at system level

PARAMETER	VALUE
Electronic Calibration Path	GPIB or keyboard

66102A Specifications

PARAMETER	VALUE
Agilent Keysight 66102A 150 W DC Power Module 20 V 7.5 A	Overview
Applications	Automated multi-output DC test in 66000A mainframes, reconfigurable ATE power channels, and 20 V class module substitution in 150 W slots.
Key Features	150 W hot-swap class modular output
Technical Specifications	Model: 66102A

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	66102A
Output Voltage At 40 C	0 to 20 V
Output Current At 40 C	0 to 7.5 A
Maximum Power	150 W
Voltage Programming Accuracy 25 Plus Or Minus 5 C: 0.03 percent plus 8 mV	
Specifications	
PARAMETER	VALUE
Current Programming Accuracy	0.03 percent plus 3 mA
Voltage Readback Accuracy	0.02 percent plus 8 mV class per module table
Current Readback Accuracy	0.02 percent plus 3 mA class
Average Programming Resolution Voltage	5.9 mV
Average Programming Resolution Current	2.3 mA
OVP Programming Resolution	120 mV
OVP Accuracy	500 mV
Mainframe Compatibility	66000A eight-slot 1200 W system
Maximum Power Per Module Family	150 W
System Total Power With Full Mainframe	1200 W
Ripple Noise CV Class	per 66000A module table for 66102A
Remote Control	GPIB via 66000A mainframe
Self Test	at power-up or GPIB command
Store Recall States	five nonvolatile per output
Electronic Calibration	over GPIB or keyboard
Series Family	Agilent 6610xA modules for 66000A
Specifications	

PARAMETER	VALUE
Over Temperature Protection	yes
User Definable Power On State	yes
DFI RI Support	yes at system level
Electronic Calibration Path	GPIO or keyboard

Notes
From Keysight/Agilent 66000A Modular Power System data sheet module column for 66102A. Confirm mainframe firmware and optional relay modules for isolation/polarity.

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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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.