

HP 5060-3387

16A Relay DC Module Connector - Opt 760



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Modular Power System

1200 W per mainframe GPIB

Modular system permits up to 8 outputs of 150 W per output in 4 U of rack space

Reconfigure fast with easily swappable modules

Fast, low-noise outputs

LIST mode and advance triggering system

Optional isolation and polarity reversal relays

Built-in measurements and advanced programmable features

Protection features to ensure DUT safety

66000A (mainframe)
66001A (keyboard)

Specifications

(at 0° to 55° C unless
otherwise specified)

66101A 66102A 66103A 66104A 66105A 66106A

66000 Modular Power System

The Agilent 66000 modular power system simplifies test-system assembly, cabling, programming, debugging and operation. It is ideal for ATE and production test environments, where it can supply bias power and stimulus to sub-assemblies and final products. The modular power system saves rack space, the 7-inch-high (4-EIA units) mainframe can accommodate up to eight DC power modules.

Key Features

- GPIB-programmable voltage and current
- Programmable over-voltage and over-current protection
- Self-test initiated at power-up or from GPIB command
- Electronic calibration over GPIB or from keyboard
- Over-temperature protection
- Discrete fault indicator/remote inhibit (DFI/RI)
- Five nonvolatile store-recall states per output
- User-definable power-on state

Multiple Mainframes at One GPIB Address

The Agilent serial link feature will allow you to control up to 16 outputs at one GPIB address by connecting an auxiliary mainframe. The serial link cable comes standard with the

Output ratings at 40° C

Output voltage	0 to 8 V	0 to 20 V	0 to 35 V	0 to 60 V	0 to 120 V	0 to 200 V
Output current	0 to 16 A	0 to 7.5 A	0 to 4.5 A	0 to 2.5 A	0 to 1.25 A	0 to 0.75 A
Maximum power	128 W	150 W	150 W	150 W	150 W	150 W

Programming accuracy at 25° C ±5° C

Voltage	0.03% +	3 mV	8 mV	13 mV	27 mV	54 mV	90 mV
Current	0.03% +	6 mA	3 mA	2 mA	1.2 mA	0.6 mA	0.4 mA

Readback accuracy

(via GPIB or keyboard display at 25° C ±5° C)

Voltage	0.02%+	2 mV	5 mV	8 mV	16 mV	32 mV	54 mV
Current	0.02%+	6 mA	3 mA	2 mA	1 mA	0.6 mA	0.3 mA

Ripple and noise (20 Hz to 20 MHz)

Constant Voltage rms	2 mV	3 mV	5 mV	9 mV	18 mV	30 mV
peak-peak	5 mV	7 mV	10 mV	15 mV	25 mV	50 mV
Constant Current rms	8 mA	4 mA	2 mA	1 mA	1 mA	1 mA

Line regulation

Voltage	0.5 mV	0.5 mV	1 mV	2 mV	3 mV	5 mV
Current	0.75 mA	0.5 mA	0.3 mA	0.1 mA	50 µA	30 µA

Load regulation

Voltage	1 mV	1 mV	1 mV	2 mV	4 mV	7 mV
Current	0.5 mA	0.2 mA	0.2 mA	0.1 mA	50 µA	30 µA

Transient response time

Less than 1 ms for the output voltage to recover within 100 mV of its previous level following any step change in load current up to 10 percent of rated current

Supplemental Characteristics

(Non-warranted characteristics determined by design that are useful in applying the product)

Average resolution

Voltage	2.4 mV	5.9 mV	10.4 mV	18.0 mV	36.0 mV	60.0 mV
Current	4.6 mA	2.3 mA	1.4 mA	0.75 mA	0.39 mA	0.23 mA
Output voltage programming (OVP)	50 mV	120 mV	200 mV	375 mV	750 mV	1.25 mV
OVP accuracy	250 mV	500 mV	800 mV	1 V	1.5 V	2.5 V

More detailed specifications at www.agilent.com/find/66000

Modular Power System

1200 W per mainframe GPIB (Continued)

66000 MPS mainframe. For applications with a broader range of power requirements, one 66000 mainframe can be connected with up to eight of the 6640, 6650, 6670, 6680, 6690 or 6030 series of system power supplies. This solution provides power ranges from 150 watts to 5000 watts at one primary GPIB address.

Output Connections

System assembly is simplified thanks to a quick-disconnect connector assembly on each module. Once your wires are connected to the load, the connector design permits the modules to be removed from the front of the mainframe without disconnecting cabling or removing the mainframe from the rack. One connector assembly is shipped with each module.

Output Sequencing

Increase test throughput by using the output sequencing feature of the 66000 MPS. This powerful feature allows you to download up to 20 voltage, current, and dwell-time parameter sets per output. This sequence can be paced by the programmed dwell times. As an alternative, triggers can be used to step through the output list. The output sequences can be executed without controller intervention, thereby increasing overall test system throughput. More detailed information on the triggering and output sequencing capabilities can be obtained by ordering the 66000 Modular Power System Product Note (p/n 5091-2497E) described below.

Specifications

(at 0° to 55°C unless otherwise specified)

Output ratings at 40°C

Output voltage	5.7 V	12 V	15 V	37 V	40 V
Output current	20 A	12 A	10 A	4.5 A	3.6 A
Maximum power	114 W	144 W	150 W	167 W	144 W

Programming accuracy at 25°C ±5°C

Voltage	0.03% +	2.5 mV	5 mV	8 mV	13 mV	15 mV
Current	0.03% +	8 mA	6 mA	4 mA	2 mA	2 mA

Readback accuracy (via GPIB keyboard display at 25°C ±5°C)

Voltage	0.02% +	2 mV	3 mV	5 mV	8 mV	9.2 mV
Current	0.02% +	8 mA	6 mA	4 mA	2 mA	2 mA

Ripple and noise (20 Hz to 20 MHz)

Constant Voltage rms	2 mV	3 mV	3 mV	5.3 mV	6 mV
peak-peak	5 mV	7 mV	7 mV	10.6 mV	11.5 mV
Constant Current rms	10 mA	8 mA	6 mA	2 mA	2 mA

Line regulation

Voltage	0.5 mV	0.5 mV	0.5 mV	1 mV	1 mV
Current	0.5 mA	0.75 mA	0.5 mA	0.3 mA	0.3 mA

Load regulation

Voltage	1 mV	1 mV	1 mV	1 mV	1 mV
Current	1 mA	0.5 mA	0.3 mA	0.2 mA	0.2 mA

Transient response time

Less than 1 ms for the output voltage to recover within 100 mV of its previous level following any step change in load current up to 10 percent of rated current

Supplemental Characteristics

(Non-warranted characteristics determined by design that are useful in applying the product)

Average resolution					
Voltage	2 mV	3.6 mV	4.5 mV	11 mV	12 mV
Current	6 mA	4.6 mA	3.1 mA	1.4 mA	1.2 mA
OVP	45 mV	75 mV	90 mV	200 mV	230 mV
OVP accuracy	250 mV	375 mV	375 mV	850 mV	920 mV

Application Notes:

66000 Modular Power System

Product Note

5988-2800EN

10 Practical Tips You Need to Know About Your Power Products

5965-8239E

10 Hints for Using Your Power Supply to Decrease Test Time

5968-6359E

Agilent DC Power Supplies for Base Station Testing

5988-2386EN

More detailed specifications at www.agilent.com/find/66000

Modular Power System

1200 W per mainframe GPIB (Continued)

Supplemental Characteristics for all model numbers

DC Floating Voltage: Output terminals can be floated up to ± 240 Vdc from chassis ground

Remote Sensing: Up to half the rated output voltage can be dropped across each load lead. Add 2 mV to the voltage load regulation specification for each 1-V change in the negative output lead caused by a load current change.

Command Processing Time: The average time for the output voltage to change after getting an GPIB command is 20 ms

Output Programming Response Time (with full resistive load): The rise and fall time (10% to 90% and 90% to 10%) of the output voltage is less than 20 ms. The output voltage change settles within 0.1% of the final value in less than 120 ms.

Down Programming: An active down-programmer sinks approximately 10% of the rated output current

Calibration Interval: One year

AC Input of System Mainframe

Voltage 100 Vac 120 Vac 200 Vac 220 Vac 230 Vac 240 Vac

Max. Current 29 A 25 A 16 A 16 A 15 A 15 A

Input Power of System Mainframe: 3200 VA (max.), 1800 W (max.), 1600 W (typ.)

GPIB Capabilities: SH1, AH1, TE6, LE4, SR1, RL1, PP0, DC1, DT1, E1, and C0, and a command set compatible with IEEE-488.2 and SCPI

Software Driver:

VXIPlug&Play

Regulatory Compliance: Listed to UL 1244; certified to CSA 22.2 No. 231; conforms to IEC 61010-1.

Weight: Net, 66000A, 15 kg (33 lb); 66001A, 1.05 kg (2.3 lb); 66101-66106A, 2.8 kg (6 lb). Shipping, 66000A, 19 kg (42 lb); 66001A, 1.34 kg (2.95 lb); 66101-66106A, 4.1 kg (9 lb).

Size: 66000A: 425.7 mm W x 192 mm H x 677.93 mm D (16.76 in x 7.28 in x 26.69 in), including feet and rear connectors

Warranty Period: One year

Specifications

(at 0° to 55° C unless otherwise specified)

66103A-J09

Special Order Option

66103A-J12

Special Order Option

66104A-J09

Special Order Option

66105A-J01

Special Order Option

Output ratings at 40° C

Output voltage	28.5 V	24 V	55 V	35 V
Output current	5.5 A	6 A	3 A	1.25 A
Maximum power	157 W	144 W	165 W	44 W

Programming accuracy at 25° C $\pm 5^{\circ}$ C

Voltage	0.03% +	13 mV	13 mV	25 mV	15 mV
Current	0.03% +	3 mA	3 mA	1.5 mA	0.6 mA

Readback accuracy (via GPIB or keyboard display at 25° C $\pm 5^{\circ}$ C)

Voltage	0.02% +	8 mV	8 mV	15 mV	9 mV
Current	0.02% +	3 mA	3 mA	1.2 mA	0.6 mA

Ripple and noise (20 Hz to 20 MHz)

Constant Voltage rms	5 mV	5 mV	9 mV	6 mV
peak-peak	10 mV	10 mV	15 mV	11.5 mV
Constant Current rms	4 mA	4 mA	1.2 mA	1 mA

Line regulation

Voltage	1 mV	1 mV	2 mV	1 mV
Current	0.3 mA	0.3 mA	0.1 mA	50 μ A

Load regulation

Voltage	1 mV	1 mV	2 mV	1 mV
Current	0.2 mA	0.2 mA	0.1 mA	50 μ A

Transient response time

Less than 1 ms for the output voltage to recover within 100 mV of its previous level following any step change in load current up to 10 percent of rated current

Supplemental Characteristics

(Non-warranted characteristics determined by design that are useful in applying the product)

Average resolution				
Voltage	10.4 mV	8 mV	16.5 mV	2 mV
Current	2 mA	2 mA	0.9 mA	1.2 mA
OVP	200 mV	150 mV	350 mV	230 mV
OVP accuracy	800 mV	600 mV	950 mV	920 mV

More detailed specifications at www.agilent.com/find/66000

Modular Power System 1200 W per mainframe GPIB (Continued)

Ordering Information

66000A MPS Mainframe

* **Opt 908** Rack-mount Kit (p/n 5063-9215)

* **Opt 909** Rack-mount Kit with Handles
(p/n 5063-9222)

Opt 0L1 Full documentation on
CD-ROM, and printed standard
documentation package

Opt 0L2 Extra copy of standard
printed documentation package

Opt 0B0 Full documentation on
CD-ROM only

Opt 0B3 Service Manual

* **Note:** Options 908 and 909 require
cabinet rails (E3663AC) or a slide kit
(p/n 1494-0059) to support the loaded
mainframe's weight.

**A line cord option must be specified,
see the AC line voltage and cord section.**

66001A MPS Keyboard includes 2m
(6 ft) cables

66002A Rack kit for 66001A keyboard

Module Options

Opt 760 Open/Close and Polarity
Reversal Relays

Opt J17 External Imon

Opt 0L1 Full documentation on
CD-ROM, and printed standard
documentation package

Opt 0L2 Extra copy of standard
printed documentation package

Opt 0B0 Full documentation on
CD-ROM only

Opt 0B3 Service Manual

Accessories

p/n 5060-3351 Field-Installable Relay Kit

p/n 5060-3386 Standard Connector
Assembly

p/n 5060-3387 Standard Connector
Assembly with installed relays (Option 760)

p/n 66000-90001 Mainframe
Installation Guide

p/n 5959-3360 DC Power Module
User's Guide

p/n 5959-3362 DC Power Module
Programming Guide

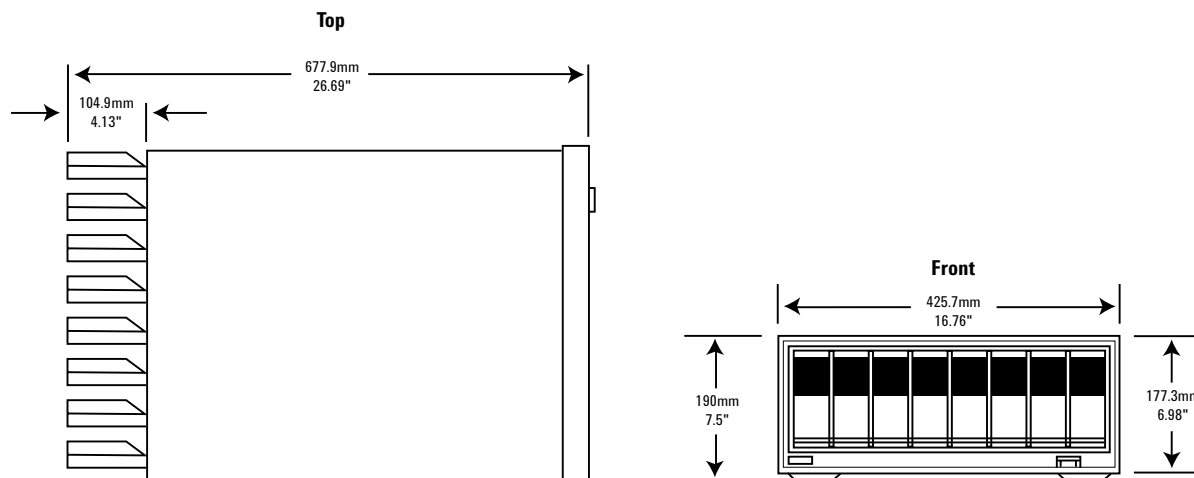
p/n 66000-90003 Mainframe Service Manual

p/n 5959-3364 DC Power Module
Service Manual

p/n 1252-1488 4-Pin FLT/Inhibit Connector

E3663AC Support rails for Agilent
rack cabinets

Agilent Models: 66000A



More detailed specifications at www.agilent.com/find/66000

**Your Requested Excerpt from the
Agilent System and Bench Instruments Catalog 2006**

The preceding page(s) are an excerpt from the 2006 System and Bench Instruments Catalog. We hope that these pages supply the information that you currently need. If you would like to have further information about the extensive selection of Agilent DC power supplies, please visit www.agilent.com/find/power to print a copy of the complete catalog, or to request that a copy be sent to you. You will also find a lot of other useful information on this Web site.

In the full System and Bench Instruments Catalog, you will find that Agilent offers much more than DC power supplies. This catalog contains detailed technical and application information on digital multimeters, DC power supplies, arbitrary waveform generators, and many more instruments. If you need basic, clean, power for your lab bench, it's there. In each power product category we have also integrated the capabilities you need for a complete power solution, including extensive measurement and analysis capabilities.

Please give us a call at your local Agilent Technologies sales office, or call a regional office listed, for assistance in choosing or using Agilent power products.

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Product specifications and descriptions in this document subject to change without notice.

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Printed in the USA, February 8, 2006



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