



## Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

### SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

### *InstraView*<sup>SM</sup> REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at [www.instraview.com](http://www.instraview.com) ↗

### WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. [www.artisanng.com/WeBuyEquipment](http://www.artisanng.com/WeBuyEquipment) ↗

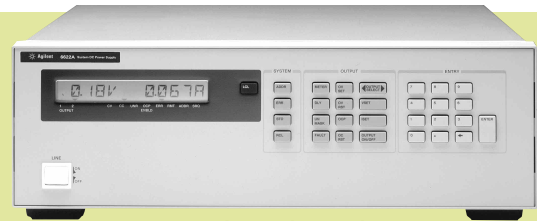
### LOOKING FOR MORE INFORMATION?

Visit us on the web at [www.artisanng.com](http://www.artisanng.com) ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)



# Multiple-Output: 40 W-105 W GPIB



6621A-6624A, 6627A

- Fast up and down programming
- Proven reliability keeps test systems running
- Easy to integrate into a system
- Extensive protection for DUTs

Two, three, or four isolated outputs are integrated into one package, conserving rack space and GPIB addresses. Most of the outputs also provide dual ranges, for more current at lower voltage levels. The outputs can be connected in parallel or series to further increase the flexibility that these products offer the system designer.

Programming is done using industry standard SCPI commands. Test system integration can be further simplified by using the *VXIPlug&Play* drivers. These power supplies help reduce test time with fast up and down programming, which is enhanced by an active downprogrammer which can sink the full rated current.

## Specifications

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

Specifications		40 W output	40 W output	80 W output	80 W output	105 W output
Output power	Low-range volts, amps	0 to 7 V, 0 to 5 A	0 to 20 V, 0 to 2 A	0 to 7 V, 0 to 10 A	0 to 20 V, 0 to 4 A	0-35 V, 0-3 A
	High range volts, amps	0 to 20 V, 0 to 2 A	0 to 50 V, 0 to 0.8 A	0 to 20 V, 0 to 4 A	0 to 50 V, 0 to 2 A	—
Output combinations for each model (total number of outputs)						
	6621A (2)	—	—	2	—	—
	6622A (2)	—	—	—	2	—
	6623A (3)	1	1	1	—	—
	6624A (4)	2	2	—	—	—
	6627A (4)	—	4	—	—	—
	6623A(3) Special Order Option J03	—	2	—	—	1
Programming accuracy	Voltage	19 mV + 0.06%	50 mV + 0.06%	19 mV + 0.06%	50 mV + 0.06%	35 mV + 0.06%
	Current	50 mA + 0.16%	20 mA + 0.16%	100 mA + 0.16%	40 mA + 0.16%	30 mA + 0.16%
Readback accuracy (at 25°C ±5°C)	Voltage	20 mV + 0.05%	50 mV + 0.05%	20 mV + 0.05%	50 mV + 0.05%	35 mV + 0.05%
	+Current	10 mA + 0.1%	4 mA + 0.1%	20 mA + 0.1%	8 mA + 0.1%	6 mA + 0.1%
	-Current	25 mA + 0.2%	8 mA + 0.2%	50 mA + 0.2%	20 mA + 0.2%	15 mA + 0.2%
Ripple and noise (peak-to-peak, 20 Hz to 20 MHz; rms, 20 Hz to 10 MHz)						
	Constant voltage rms	500 µV	500 µV	500 µV	500 µV	500 µV
	peak-to-peak	3 mV	3 mV	3 mV	3 mV	3 mV
	Constant current rms	1 mA	1 mA	1 mA	1 mA	1 mA
Load regulation	Voltage	2 mV	2 mV	2 mV	2 mV	2 mV
	Current	1 mA	0.5 mA	2 mA	1 mA	2 mA
Load cross regulation	Voltage	1 mV	2.5 mV	1 mV	2.5 mV	N/A
	Current	1 mA	0.5 mA	2 mA	1 mA	N/A
Line regulation	Voltage	0.01% + 1 mV	0.01% + 1 mV	0.01% + 1 mV	0.01% + 1 mV	0.01% + 1 mV
	Current	0.06% + 1 mA	0.06% + 1 mA	0.06% + 1 mA	0.06% + 1 mA	0.06% + 1 mA

Transient response time Less than 75 µs for the output to recover to within 75 mV of nominal value following a load change within specifications



## Multiple-Output: 40 W-105 W GPIB (Continued)

### Specifications

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

40 W output	40 W output	80 W output	80 W output	105 W output
-------------	-------------	-------------	-------------	--------------

#### Supplemental Characteristics for all model numbers

**dc Floating Voltage:** All outputs can be floated up to ±240 Vdc from chassis ground

**Remote Sensing:** Up to 1 V drop per load lead. The drop in the load leads is subtracted from the voltage available for the load.

**Command Processing Time:** 7 ms typical with front-panel display disabled

**Down Programming:** Current sink limits are fixed approximately 10% higher than source limits for a given operating voltage above 2.5 V

**Input Power:** 550 W max., 720 VA max.

**GPIB Interface Capabilities:** SH1, AH1, T6, L4, SR1, RL1, PP1, DC1, DT0.

**Regulatory Compliance:** Listed to UL1244; conforms to IEC 61010-1; carries the CE mark.

**Size:** 425.5 mm W x 132.6 mm H x 497.8 mm D (16.75 in x 5.22 in x 19.6 in) See page 103 for more details

**Weight:** Net, 17.4 kg (38 lb); shipping, 22.7 kg (50 lb)

**Warranty Period:** Three years

#### Supplemental Characteristics

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

		40 W output	40 W output	80 W output	80 W output	105 W output
Average programming resolution	Voltage	6 mV	15 mV	6 mV 20 mV (high)	6 mV 20 mV (high)	10.5 mV
	Current	25 mA	10 mA	50 mA 20 mA (high)	50 mA 20 mA (high)	15 mA
OVP		100 mV	250 mV	100 mV 2	50 mV	175 mV
Output programming response time (time to settle within 0.1% of full scale output, after Vset command has been processed)		2 ms	6 ms	2 ms	6 ms	6 ms

#### Ordering Information

**Opt 100** 87 to 106 Vac, 47 to 66 Hz Input, 6.3 A (Japan only)

**Opt 120** 104 to 127 Vac, 47 to 63 Hz

**Opt 220** 191 to 233 Vac, 47 to 66 Hz, 3.0 A

**Opt 240** 209 to 250 Vac, 47 to 66 Hz, 3.0 A

**Opt 750** Relay Control and DFI/RI

**Opt S50** similar to option 750, however the remote inhibit does not latch

\* **Opt 908** Rack-mount Kit (p/n 5062-3977)

\* **Opt 909** Rack-mount Kit w/Handles (p/n 5063-9221)

**Opt 0L2** Extra Standard Documentation Package

**Opt 0B3** Service Manual

**Opt 0B0** No documentation package

\* Support rails required

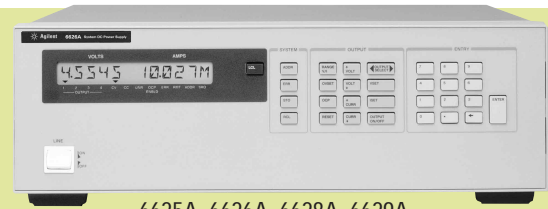
#### Accessories

p/n 1494-0059 Rack Slide Kit

E3663A Support rails for Agilent rack cabinets



# Precision Multiple-Output: 25 W-50 W GPIB



6625A, 6626A, 6628A, 6629A

- Precise V & I programming and readback
- Fast up and down programming
- Extensive protection for DUTs
- Easy to integrate into a system

## Specifications

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

### 25 W output

### 50 W output

Two or four isolated outputs are integrated into one package, conserving rack space and GPIB addresses. Dual ranges allow for more current at lower voltage levels. The outputs can be connected in parallel or series to further increase the flexibility that these products offer the system designer. Programming is done using industry standard SCPI commands and test system integration can be further simplified by using the *VXIPlug&Play* drivers. These power supplies help reduce test time with fast up and down programming, which is enhanced by the active down-programmer which can sink the full rated current.

These power supplies are very useful on the R&D bench. The accuracy of both the programming and the measurement systems allow precise control and monitoring of prototype bias power. The extensive protection features protect valuable prototypes, including very fast CV/CC crossover. The power supply can be controlled from either the front panel keypad or, for automated testing, from the GPIB.

		25 W output	50 W output
<b>Output power</b>	Low-range volts, amps	0 to 7 V, 0 to 15 mA	0 to 16 V, 0 to 200 mA
	High range volts, amps	0 to 50 V, 0 to 500 mA	0 to 50 V, 0 to 1 A or 0 to 16 V, 0 to 2 A
<b>Output combinations</b> for each model (total number of outputs)	<b>6625A (2) Precision</b>	1	1
	<b>6626A (4) Precision</b>	2	2
	<b>6628A (2) Precision</b>	—	2
	<b>6629A (4) Precision</b>	—	4
<b>Programming accuracy</b> (at 25°C ±5°C)	Voltage	1.5 mV + 0.016% (low) 10 mV + 0.016% (high)	3 mV + 0.016% (low) 10 mV + 0.016% (high)
	Current	15 µA + 0.04% (low) 100 µA + 0.04% (high)	185 µA + 0.04% (low) 500 µA + 0.04% (high)
<b>Readback accuracy</b> (at 25°C ±5°C)	Voltage	0.016% + 2 mV (low) 0.016% + 10 mV (high)	0.016% + 3.5 mV (low) 0.016% + 10 mV (high)
	+/-Current	0.03% + 15 µA (low) 0.03% + 130 µA (high)	0.04% + 250 µA (low) 0.04% + 550 µA (high)
<b>Ripple and noise</b> (peak-to-peak, 20 Hz to 20 MHz; rms, 20 Hz to 10 MHz)	Constant voltage rms	500 µV	500 µV
	peak-to-peak	3 mV	3 mV
	Constant current rms	0.1 mA	0.1 mA
<b>Load regulation</b>	Voltage	0.5 mV	0.5 mV
	Current	0.005 mA	0.01 mA
<b>Load cross regulation</b>	Voltage	0.25 mV	0.25 mV
	Current	0.005 mA	0.01 mA
<b>Line regulation</b>	Voltage	0.5 mV	0.5 mV
	Current	0.005 mA	0.01 mA
<b>Transient response time</b> change within specifications		Less than 75 µs for the output to recover to within 75 µs of nominal value following a load	
<b>Supplemental Characteristics</b>		(Non-warranted characteristics determined by design and useful in applying the product)	
		<b>25-watt output</b>	<b>50-watt output</b>
<b>Average programming resolution</b>	Voltage	460 µV (low)	1 mV (low)
		3.2 mV (high)	3.2 mV (high)
	Current	1 µA (low)	13 µA (low)
		33 µA (high)	131 µA (high)
	OVP	230 mV	230 mV
<b>Output programming response time</b>		6 ms	6 ms

(time to settle within 0.1% of full scale output, after Vset command has been processed)



## Precision Multiple-Output: 25 W-50 W GPIB (Continued)

### Supplemental Characteristics for all model numbers

**dc Floating Voltage:** All outputs can be floated up to  $\pm 240$  Vdc from chassis ground

**Remote Sensing:** Up to 10 V drop per load lead. The drop in the load leads is subtracted from the voltage available for the load.

**Command Processing Time:** 7 ms typical with front-panel display disabled

**Input Power:** 550 W max., 720 VA max.

**GPIB Interface Capabilities:** SH1, AH1, T6, L4, SR1, RL1, PP1, DC1, DT0, C0, E1.

**Regulatory Compliance:** Listed to UL 1244; conforms to IEC 61010-1.

**Size:** 425.5 mm W x 132.6 mm H x 497.8 mm D (16.75 in x 5.22 in x 19.6 in)  
See page 103 for more details

**Weight:** 6626A, 6629A: Net, 17.4 kg (38 lb); shipping, 22.7 kg (50 lb) 6625A, 6628A: Net, 15.5 kg (34 lb); shipping, 20.8 kg (46 lb)

**Warranty Period:** Three years

### Ordering Information

**Opt 100** 87 to 106 Vac, 47 to 66 Hz Input, 6.3 A (Japan only)

**Opt 120** 104 to 127 Vac, 47 to 63 Hz

**Opt 220** 191 to 233 Vac, 47 to 66 Hz, 3.0 A

**Opt 240** 209 to 250 Vac, 47 to 66 Hz, 3.0 A

**Opt 750** Relay Control and DFI/RI

**Opt S50** Similar to option 750, however the remote inhibit does not latch

\* **Opt 908** Rack-mount Kit (p/n 5062-3977)

\* **Opt 909** Rack-mount Kit w/Handles (p/n 5063-9221)

**Opt 0L2** Extra Standard Documentation Package

**Opt 0B3** Service Manual

**Opt 0B0** No documentation package

\* Support rails required

### Accessories

**p/n 1494-0059** Rack Slide Kit

**E3663AC** Support rails for Agilent rack cabinets

## Your Requested Excerpt from the Agilent Power Products Catalog

The preceding page(s) are an excerpt from the *2002-2003 Power Products 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, ac sources, and dc electronic loads, please visit [www.agilent.com/find/power](http://www.agilent.com/find/power) to print a copy of the complete Power Products 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 Power Products Catalog, you will find that Agilent offers much more than basic power generation. If you need basic, clean, power for your lab bench, it's there. But in each product category, we've also integrated the capabilities that 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 below, for assistance in choosing or using Agilent power products.

## Keep up to date with Agilent's Test and Measurement Email Updates

As an Email Update subscriber, you will receive periodic customized email updates that match the areas of interest that you have specified. Your update will include products and services, applications and support information, events, and promotions. Sign up today at [www.agilent.com/find/emailupdates](http://www.agilent.com/find/emailupdates).

Check off dc power supplies, ac power sources or electronic loads on your registration form, and we will promptly let you know what's new in power products! Our Privacy Statement at [www.agilent.com/go/privacy](http://www.agilent.com/go/privacy) describes our commitment to you regarding your privacy.

To see a copy of the user's guide, please visit our Web site at [www.agilent.com/find/manuals](http://www.agilent.com/find/manuals)

By internet, phone, or fax, get assistance with all your test & measurement needs

Online assistance:  
[www.agilent.com/find/assist](http://www.agilent.com/find/assist)

## Phone or Fax

**United States:**  
(tel) 1 800 452 4844

**Canada:**  
(tel) 1 877 894 4414  
(fax) (905) 282-6495

**China:**  
(tel) 800-810-0189  
(fax) 1-0800-650-0121

**Europe:**  
(tel) (31 20) 547 2323  
(fax) (31 20) 547 2390

**Japan:**  
(tel) (81) 426 56 7832  
(fax) (81) 426 56 7840

**Korea:**  
(tel) (82-2) 2004-5004  
(fax) (82-2) 2004-5115

**Latin America:**  
(tel) (305) 269 7500  
(fax) (305) 269 7599

**Taiwan:**  
(tel) 080-004-7866  
(fax) (886-2) 2545-6723

**Other Asia Pacific Countries:**  
(tel) (65) 375-8100  
(fax) (65) 836-0252  
Email: [tm\\_asia@agilent.com](mailto:tm_asia@agilent.com)

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





## Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

### SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

### *InstraView*<sup>SM</sup> REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at [www.instraview.com](http://www.instraview.com) ↗

### WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. [www.artisanng.com/WeBuyEquipment](http://www.artisanng.com/WeBuyEquipment) ↗

### LOOKING FOR MORE INFORMATION?

Visit us on the web at [www.artisanng.com](http://www.artisanng.com) ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)