



Agilent Performance dc Power Supplies speed and accuracy for test optimization

Single-Output: 2000 W



6571A-6575A

- Proven reliability
- High efficiency
- Low ripple and noise

This series of 2000 watt dc power supplies has the exceptional, proven reliability that test system engineers look for. It also has the unusual combination of high efficiency and low noise operation.

These dc power supplies can be controlled either from the front panel or via an analog programming voltage. When used in a test system, the fast up and down programming helps decrease test time. Quickly reacting protection features, including CV/CC mode crossover and over-voltage protection help protect your valuable assemblies from damage.

Lab-bench use is enhanced by the fan-speed control, which minimizes acoustic noise. The extremely low ripple and noise helps the test engineer make extremely accurate current and voltage measurements.

Specifications

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

		6571A	6572A	6573A	6574A	6575A	6571A-J03 Special Order Option
Number of outputs		1	1	1	1	1	1
GPIB		No	No	No	No	No	No
Output ratings							
Output voltage		0 to 8 V	0 to 20 V	0 to 35 V	0 to 60 V	0 to 120 V	14 V
Output current		0 to 220 A	0 to 100 A	0 to 60 A	0 to 35 A	0 to 18 A	150 A
Programming accuracy at 25°C ±5°C							
Voltage	0.04% +	8 mV	20 mV	35 mV	60 mV	120 mV	14 mV
Current	0.1% +	125 mA	60 mA	40 mA	25 mA	12 mA	90 mA
Ripple and noise from 20 Hz to 20 MHz							
Voltage rms		650 µV	750 µV	800 µV	1.25 mV	1.9 mV	1.5 mV
peak-peak		7 mV	9 mV	9 mV	11 mV	16 mV	15 mV
Current rms		200 mA	100 mA	40 mA	25 mA	12 mA	150 mA
Load regulation and line regulation							
Voltage	0.002%+	300 µV	650 µV	1.2 mV	2 mV	4 mV	600 µV
Current	0.005%+	10 mA	7 mA	4 mA	2 mA	1 mA	7 mA
Transient response time		Less than 900 µs for the output voltage to recover 100 mV following a change in load from 100% to 50% or 50% to 100% of the output current rating of the supply					
Supplemental Characteristics		(Non-warranted characteristics determined by design and useful in applying the product)					
Average resolution							
Voltage		2 mV	5 mV	9 mV	15 mV	30 mV	4 mV
Current		55 mA	25 mA	15 mA	8.75 mA	4.5 mA	40 mA
OVP		15 mV	35 mV	65 mV	100 mV	215 mV	28 mV
Output voltage programming response time*							
*Full load programming rise/fall time (10% to 90% or 90% to 10%) with full resistive load equal to rated output voltage/rated output current.		30 ms	60 ms	130 ms	130 ms	195 ms	30 ms



Single-Output: 2000 W (Continued)

Supplemental Characteristics for all model numbers

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

Output Common-Mode Noise Current: (to signal ground binding post) 500 μ A rms, 4 mA peak-to-peak

Remote Sensing: Up to half the rated output voltage can be dropped in each load lead. The drop in the load leads subtracts from the voltage available for the load.

Modulation: (Analog programming of output voltage and current)

Input Signal: 0 to -4 V for voltage, 0 to 7 V for current

Input Impedance: 30 k Ohm or greater

Input Power: 3,800 VA, 2,600 W at full load; 170 W at no load

Regulatory Compliance: Listed to UL1244; certified to CSA556B; conforms to IEC 61010-1.

Size: 425.5 mm W x 132.6 mm H x 640 mm D (16.75 in x 5.22 in x 25.2 in)
See page 102 for more details

Weight: Net, 28.2 kg (62 lb); shipping, 31.8 kg (70 lb)

Warranty Period: One year

Specifications (at 0° to 55° C unless otherwise specified)	6571A-J04 Special Order Option	6571A-J17 Special Order Option	6573A-J03 Special Order Option	6573A-J08 Special Order Option	6574A-J03 Special Order Option	6574A-J07 Special Order Option
Number of outputs	1	1	1	1	1	1
GPIB	No	No	No	No	No	No
Output ratings						
Output voltage	10 V	15 V	37.5V	40 V	56 V	50 V
Output current	200 A	120 A	45 A	50 A	38 A	42 A
Programming accuracy at 25°C $\pm 5^{\circ}$C						
Voltage	0.04% +	10 mV	15 mV	37.5 mV	40 mV	60 mV
Current	0.1% +	125 mA	90 mA	40 mA	35 mA	28 mA
Ripple and noise from 20 Hz to 20 MHz						
Voltage rms		750 μ V	1.5 mV	800 μ V	1 mV	1.25 mV
peak-peak		9 mV	15 mV	9 mV	10.5 mV	11 mV
Current rms		200 mA	150 mA	40 mA	40 mA	28 mA
Load regulation and line regulation						
Voltage	0.002% +	300 μ V	650 μ V	1.2 mV	1.4 mV	2 mV
Current	0.005% +	10 mA	7 mA	4 mA	4 mA	2 mA
Transient response time	Less than 900 μ s for the output voltage to recover 100 mV following a change in load from response time 100% to 50% or 50% to 100% of the output current rating of the supply					
Supplemental Characteristics	(Non-warranted characteristics determined by design and useful in applying the product)					
Average resolution						
Voltage		2.5 mV	4 mV	10 mV	10.5 mV	14 mV
Current		55 mA	35 mA	15 mA	12.5 mA	9.5 mA
OVP		20 mV	30 mV	65 mV	75 mV	100 mV
Output voltage programming response time*						
*Full load programming rise/fall time (10% to 90% or 90% to 10%) with full resistive load equal to rated output voltage/rated output current.		35 ms	35 ms	130 ms	130 ms	130 ms



Single-Output: 2000 W (Continued)

Ordering Information

Opt 200 174 to 220 Vac, 47 to 63 Hz (Japan only)

Opt 230 191 to 250 Vac, 47 to 63 Hz

* **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

A line cord option must be specified. See pages 93-98 for ordering information.

* Support rails required

Accessories

p/n 1494-0059 Accessory Slide Kit

E3663AC Support rails for Agilent rack cabinets

Specifications

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

		6575A-J04 Special Order Option	6575A-J06 Special Order Option	6575A-J07 Special Order Option	6575A-J08 Special Order Option	6575A-J09 Special Order Option	6575A-J11 Special Order Option
Number of outputs		1	1	1	1	1	1
GPIB		No	No	No	No	No	No
Output ratings							
Output voltage		160 V	135 V	200 V	100 V	110 V	150 V
Output current		13 A	16 A	11 A	22 A	20 A	15 A
Programming accuracy at 25°C ±5°C							
Voltage	0.04% +	160 mV	125 mV	200 mV	120 mV	120 mV	150 mV
Current	0.1% +	10 mA	12 mA	8 mA	15 mA	13.5 mA	11 mA
Ripple and noise from 20 Hz to 20 MHz							
Voltage rms		2.8 mV	2 mV	3.5 mV	1.9 mV	1.9 mV	2.5 mV
peak-peak		20 mV	18 mV	25 mV	16 mV	16 mV	18 mV
Current rms		18 mA	12 mA	15 mA	15 mA	13.5 mA	12 mA
Load regulation and line regulation							
Voltage	0.002% +	6 mV	4 mV	7 mV	4 mV	4 mV	6 mV
Current	0.005% +	1 mA	4 mV	1 mA	4 mV	4 mV	1 mA
Transient response time		Less than 900 μs for the output voltage to recover 100 mV following a change in load from response time 100% to 50% or 50% to 100% of the output current rating of the supply					

Supplemental Characteristics

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

Average resolution							
Voltage		40 mV	34 mV	50 mV	30 mV	30 mV	37.5 mV
Current		3.25 mA	4 mA	2.75 mA	4.5 mA	4.5 mA	3.75 mA
OVP		300 mV	242 mV	360 mV	215 mV	215 mV	270 mV
Output voltage programming response time*							
*Full load programming rise/fall time (10% to 90% or 90% to 10%) with full resistive load equal to rated output voltage/rated output current.		280 ms	250 ms	350 ms	195 ms	195 ms	250 ms

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 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.

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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 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

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

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



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