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# Single-Output: 200 W



6541A-6545A

Protect valuable assemblies with fast protection features

Proven reliability

Low ripple and noise

This reliable series of 200 W 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 fast crowbar, CV/CC mode crossover and over-voltage protection help protect your valuable assemblies from damage. The linear topology produces very low ripple and noise, which allows you to make extremely accurate measurements of the devices which you are testing.

Lab bench use is enhanced by the fan speed control, which helps to minimize the acoustic noise.

| Specifications (at 0° to 55°C unless otherwise specified) | | 6541A | 6542A | 6543A | 6544A | 6545A |
|---|---|---|---|---|---|---|
| **Number of outputs** | | 1 | 1 | 1 | 1 | 1 |
| **GPIB** | | 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 |
| Output current (40° C) | | 0 to 20 A | 0 to 10 A | 0 to 6 A | 0 to 3.5 A | 0 to 1.5 A |
| Maximum current (50° C/55° C) | | 18 A/17 A | 9 A/8.5 A | 5.4 A/5.1 A | 3.2 A/3 A | 1.4 A/1.3 A |
| **Programming accuracy** | at 25°C ±5°C | | | | | |
| Voltage | 0.06% + | 5 mV | 10 mV | 15 mV | 26 mV | 51 mV |
| Current | 0.14% + | 26 mA | 13 mA | 6.7 mA | 4.1 mA | 1.7 mA |
| **Ripple and noise** | | | | | | |
| from 20 Hz to 20 MHz | | | | | | |
| Voltage rms | | 300 µV | 300 µV | 400 µV | 500 µV | 700 µV |
| peak-peak | | 3 mV | 3 mV | 4 mV | 5 mV | 7 mV |
| Current rms | | 10 mA | 5 mA | 3 mA | 1.5 mA | 1 mA |
| **Load regulation** | | | | | | |
| Voltage | | 1 mV | 2 mV | 3 mV | 4 mV | 5 mV |
| Current | | 1 mA | 0.5 mA | 0.25 mA | 0.25 mA | 0.25 mA |
| **Line regulation** | | | | | | |
| Voltage | | 0.5 mV | 0.5 mV | 1 mV | 1mV | 2 mV |
| Current | | 1 mA | 0.5 mA | 0.25 mA | 0.25 mA | 0.25 mA |
| **Transient response time** | | Less than 100 µs for the output voltage to recover to its previous level (within 0.1% of the voltage rating of the supply or 20 mV, whichever is greater) following any step change in load current of up to 50% of rated current | | | | |
| **Supplemental Characteristics** | | (Non-warranted characteristics determined by design and useful in applying the product) | | | | |
| **Average resolution** | | | | | | |
| Voltage | | 2 mV | 5 mV | 10 mV | 15 mV | 30 mV |
| Current | | 6 mA | 3 mA | 2 mA | 1.2 mA | 0.5 mA |
| OVP | | 13 mV | 30 mV | 54 mV | 93 mV | 190 mV |
| **OVP accuracy** | | 160 mV | 400 mV | 700 mV | 1.2 V | 2.4 V |



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# Single-Output: 200 W (Continued)

## Specifications

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

| | 6541A-J04 Special Order Option | 6544A-J09 Special Order Option | 6545A-J05 Special Order Option |
|---|---|---|---|
| **Number of outputs** | 1 | 1 | 1 |
| **GPIB** | No | No | No |
| **Output ratings** | | | |
| Output voltage | 13 V | 70 V | 150 V |
| Output current (40° C) | 15.3 A | 3 A | 1.2 A |
| Maximum current (50° C/55° C) | 13.77 A/13 A | 2.7 A/2.55 A | 1.08 A/1.02 A |
| **Programming accuracy** at 25°C ±5°C | | | |
| Voltage 0.06% + | 8.5 mV | 31 mV | 65 mV |
| Current 0.15% + | 21 mA | 4.1 mA | 1.7 mA |
| **Ripple and noise** | | | |
| from 20 Hz to 20 MHz | | | |
| Voltage rms | 300 µV | 600 µV | 900 µV |
| peak-peak | 3 mV | 6 mV | 9 mV |
| Current rms | 8 mA | 1.5 mA | 1 mA |
| **Load regulation** | | | |
| Voltage | 1 mV | 4.5 mV | 7 mV |
| Current | 1 mA | 0.25 mA | 0.25 mA |
| **Line regulation** | | | |
| Voltage | 0.5 mV | 1.5 mV | 2.5 mV |
| Current | 1 mA | 0.25 mA | 0.25 mA |
| **Transient response time** | Less than 100 µs for the output voltage to recover to its previous level (within 0.1% of the voltage rating of the supply or 20 mV, whichever is greater) following any step change in load current of up to 50% of rated current | | |
| **Supplemental Characteristics** | (Non-warranted characteristics determined by design and useful in applying the product) | | |
| **Average resolution** | | | |
| Voltage | 3.5 mV | 1.4 mV | 37.5 mV |
| Current | 5 mA | 1.2 mA | 0.5 mA |
| OVP | 23 mV | 110 mV | 250 mV |
| **OVP accuracy** | 260 mV | 1.5 mV | 3 V |

### 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 in each load lead. The drop in the load leads subtracts from the voltage available for the load.

**Output Programming Response Time:** The rise and fall time (10/90% and 90/10%) of the output voltage is less than 15 ms. The output voltage change settles within 1 LSB (0.025% x rated voltage) of final value in less than 60 ms.

**Down Programming:** An active down programmer sinks approximately 20% of the rated output current

**Modulation:** (Analog programming of output voltage and current)
Input Signal: 0 to –5 V
Input Impedance: 10 k Ohm nominal

**ac Input:** (ac input frequency 47 to 63 Hz)

| Voltage | 100 Vac | 120 Vac | 220 Vac | 240 Vac |
|---|---|---|---|---|
| Current | 4.4 A | 3.8 A | 2.2 A | 2.0 A |

**Input Power:** 480 VA, 400 W at full load; 60 W at no load
**Regulatory Compliance:** Conforms to UL1244 and IEC 61010-1.

**Size:** 425.5 mm W x 88.1 mm H x 439 mm D (16.75 in x 3.5 in x 17.3 in)
See page 101 for more details

**Weight:** Net, 14.2 kg (31.4 lb); shipping, 16.3 kg (36 lb)

**Warranty Period:** Three years

### Ordering Information

**Opt 100** 87 to 106 Vac, 47 to 63 Hz
**Opt 120** 104 to 127 Vac, 47 to 63 Hz
**Opt 220** 191 to 233 Vac, 47 to 63 Hz
**Opt 240** 209 to 250 Vac, 47 to 63 Hz
* **Opt 908** Rack-mount Kit (p/n 5063-9212)
* **Opt 909** Rack-mount Kit w/ Handles (p/n 5063-9219)
**Opt 0L2** Extra Standard Documentation Package
**Opt 0B3** Service Manual
**Opt 0B0** No documentation package
* Support rails required

**Accessories**
**p/n 1494-0060** Accessory Slide Kit
**E3663AC** Support rails for Agilent rack cabinets



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## 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.

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