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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
<b>Number of outputs</b>	1	1	1	1	1
<b>GPIB</b>	No	No	No	No	No
<b>Output ratings</b>					
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
<b>Programming accuracy at 25° C ±5° C</b>					
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
<b>Ripple and noise</b>					
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
<b>Load regulation</b>					
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
<b>Line regulation</b>					
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)

<b>Average resolution</b>					
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



## Single-Output: 200 W (Continued)

### Supplemental Characteristics for all model numbers

**dc Floating Voltage:** Output terminals can be floated up to  $\pm 240$  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

### Specifications

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

#### 6541A-J04

Special Order Option

#### 6544A-J09

Special Order Option

#### 6545A-J05

Special Order Option

	6541A-J04	6544A-J09	6545A-J05
<b>Number of outputs</b>	1	1	1
<b>GPIB</b>	No	No	No
<b>Output ratings</b>			
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
<b>Programming accuracy at 25° C <math>\pm 5^\circ</math> C</b>			
Voltage	0.06% + 8.5 mV	31 mV	65 mV
Current	0.15% + 21 mA	4.1 mA	1.7 mA
<b>Ripple and noise</b>			
from 20 Hz to 20 MHz			
Voltage rms	300 $\mu$ V	600 $\mu$ V	900 $\mu$ V
peak-peak	3 mV	6 mV	9 mV
Current rms	8 mA	1.5 mA	1 mA
<b>Load regulation</b>			
Voltage	1 mV	4.5 mV	7 mV
Current	1 mA	0.25 mA	0.25 mA
<b>Line regulation</b>			
Voltage	0.5 mV	1.5 mV	2.5 mV
Current	1 mA	0.25 mA	0.25 mA
<b>Transient response time</b>	Less than 100 $\mu$ s 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)

	6541A-J04	6544A-J09	6545A-J05
<b>Average resolution</b>			
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
<b>OVP accuracy</b>	260 mV	1.5 mV	3 V

### 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

## 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.

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



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