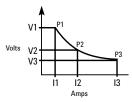




6010A, 6011A, 6012B, 6015A

# **Single-Output, Autoranging** 200 W and 1000 W

Autoranging Output:



Autoranging outputs provide maximum power at a variety of operating voltages

Analog/resistance control of output voltage and current

Series and auto-parallel connections enable greater output flexibility

Protection features to ensure DUT safety

<b>Specifications</b> (at 0° to 55°C unless otherwise specified)		6010A	6011A	6012B	6015A	
Number of outputs		1	1	1	1	
GPIB		No	No	No	No	
Output ratings						
Voltage		0 to 200 V	0 to 20 V	0 to 60 V	0 to 500 V	
Current		0 to 17 A	0 to 120 A	0 to 50 A	0 to 5 A	
Maximum power		_				
Watts		1,200 W	1,064 W	1,200 W	1,050 W	
Autoranging output	V1, I <sub>1</sub>	200 V, 5 A	20 V, 50 A	60 V, 17.5 A	500 V, 2 A	
	V2, I <sub>2</sub>	120 V, 10 A	14 V, 76 A	40 V, 30 A	350 V, 3 A	
	V3, I <sub>3</sub>	60 V, 17 A	7 V, 120 A	20 V, 50 A	200 V, 5 A	
Ripple and noise, 20 H	Iz to 20 MHz					
Voltage rms		<mark>22 m</mark> V	8 mV	8 mV	50 mV	
p-p		50 mV	50 mV	40 mV	160 mV	
Current rms		15 mA	120 mA	25 mA	50 mA	
Load regulation	C			I an an dear a		
Voltage	0.01%+	5 mV	3 mV	5 mV	13 mV	
Current	0.01%+	10 mA	15 mA	10 mA	35 mA	
Transient response tir 10% step change	ne					
Time		2 ms	2 ms	2 ms	5 ms	
Level		150 mV	100 mV	100 mV	200 mV	
Supplemental Char	acteristics	(Non-warranted useful in applyir	characteristics dete g the product)	rmined by design th	at are	
<b>Programming resolut</b> Voltage	ion	50 mV	5 mV	15 mV	125 mV	
Current		4.25 mA	30 mA	12.5 mA	1.25 mA	
DC floating voltage either terminal can be or floated from chassis		±550 V	±240 V	±240 V	±550 V	
AC input current	100 Vac	24 A	24 A	24 A	24 A	
	120 Vac	24 A	24 A	24 A	24 A	
	220 Vac	15 A	15 A	15 A	15 A	
	240 Vac	14 A	14 A	14 A	14 A	
Weight	Net	16.3 kg (36 lb)	17.2 kg (38 lb)	16.3 kg (36 lb)	16.3 kg (36 lb)	
	Shipping	21.8 kg (48 lb)	22.7 kg (50 lb)	21.8 kg (48 lb)	21.8 kg (48 lb)	

This series of DC power supplies take the place of multiple power supplies on your test bench by providing maximum power at a variety of operating points. They have ten-turn front panel pots to allow precise local control. These power supplies also may be connected in auto-parallel or series with their corresponding GPIB unit (6030 Series), as part of a test system.

### **Application Notes:**

10 Practical Tips You Need to Know About Your Power Products 5965-8239E

More detailed specifications at www.agilent.com/find/6010

## Single-Output, Autoranging 200 W and 1000 W (Continued)

### Supplemental Characteristics for all model numbers

**Remote Sensing:** Up to 2 V drop in each lead. Voltage regulation specification met with up to 0.5 V drop, but degrades for greater drops.

**Modulation:** (analog programming of output voltage and current)

**Input signal:** 0 to 5 V or 0 to 4 k Ohms **Regulatory Compliance:** Certified to CSA556B; conforms to IEC 61010-1.

**Size:** 425.5 mm W x 132.6 mm H x 516.4 mm D (16.75 in x 5.25 in x 20.33 in).

Warranty: One year

### Ordering Information

**Opt 120** 104 to 127 Vac, 47 to 63 Hz **Opt 220** 191 to 233 Vac, 48 to 63 Hz **Opt 240** 209 to 250 Vac, 48 to 63 Hz

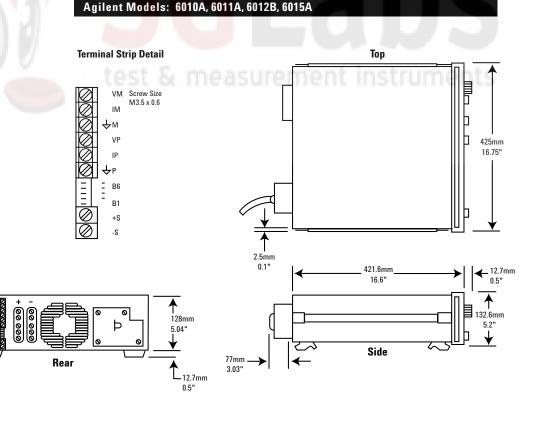
 \* Opt 908 Rack-mount Kit (p/n 5062-3977)
\* Opt 909 Rack-mount Kit with Handles. (p/n 5062-3983)

**Opt OL1** 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 J01** Stabilization for loads up to 10 Henries

A line cord option must be specified, see the AC line voltage and cord section. \*Support rails required Accessories 1494-0060 Rack Slide Kit E3663AC Support rails for Agilent rack cabinets



#### More detailed specifications at www.agilent.com/find/6010

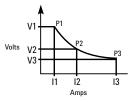


6030A, 6031A, 6032A, 6033A, 6035A, 6038A

### Single-Output, Autoranging 200 W and 1000 W GPIB

Autoranging outputs provide maximum power at a variety of operating voltages

Analog/resistance control of output voltage and current Series and auto-parallel connections of multiple supplies Built-in measurements and advanced programmable features Protection features to ensure DUT safety



Autoranging Output:

This series of 200 watt and 1000 watt DC power supplies take the place of multiple power supplies in your test system by providing maximum power at a variety of operating points.

Industry standard SCPI commands and VXIPlug&Play drivers make system integration easy. Using the serial link, up to 16 power supplies can be connected through one GPIB address. These power supplies have excellent electrical efficiency, making them a good choice for large systems.

_		
App	lication	Notes:

10 Hints for Using Your Power Supply to Decrease Test Time 5968-6359E

10 Practical Tips You Need to Know About Your Power Products 5965-8239E

Agilent DC Power Supplies for Base Station Testing 5988-2386EN

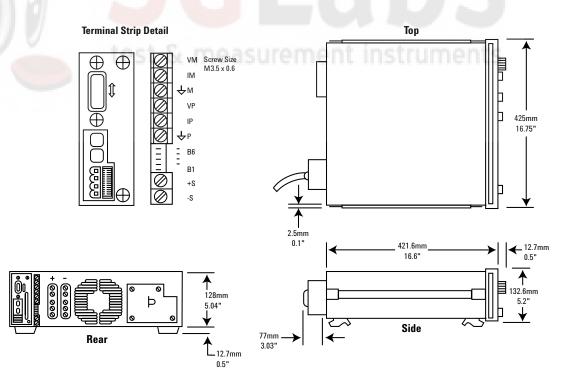
<b>Specifications</b> (at 0° to 55°C unless otherwise specified)		6030A	6031A	6032A	6033A	6035A	6038A
Number of outputs		1	1	1	1	1	1
GPIB		Yes	Yes	Yes	Yes	Yes	Yes
Output ratings							
Output Voltage		0 to 200 V	0 to 20 V	0 to 60 V	0 to 20 V	0 to 500 V	0 to 60 V
Output Current		0 to 17 A	0 to 120 A	0 to 50 A	0 to 30 A	0 to 5 A	0 to 10 A
Maximum power watts		1,200 W	1,064 W	1,200 W	242 W	1,050 W	240 W
Autoran <mark>ging</mark> output	V1, I <sub>1</sub>	200 V, 5 A	20 V, 50 A	60 V, 17.5 A	20 V, 10 A	500 V, 2 A	60 V, 3.3 A
	V2, I <sub>2</sub>	120 V, 10 A	14 V, 76 A	40 V, 30 A	14 V, 17.2 A	350 V, 3 A	40 V, 6 A
	V3, I <sub>3</sub>	60 V, 17 A	7 V, 120 A	20 V, 50 A	6.7 V, 30 A	200 V, 5 A	20 V, 10 A
Programming accuracy at 25°C ±5°C	Voltage	0.035% +145 mV	0.035% +15 mV	0.035% +40 mV	0.035% +9 mV	0.25% +400 mV	0.035% +40 mV
2	Current	0.2% +25 mA	0.25% +250 mA	0.2% +85 mA	0.15% +20 mA	0.3% +63 mA	0.09% +10 mA
Ripple and noiseVoltage rms20 Hz to 20 MHzp-p		22 mV 50 mV	8 mV 50 mV	8 mV 40 mV	3 mV 30 mV	50 mV 160 mV	3 mV 30 mV
Cu	rrent rms	15 mA	120 mA	25 mA	30 mA	50 mA	5 mA
<b>Readback accuracy</b> at 25°C ±5°C	Voltage	0.08% +80 mV	0.08% +7 mV	0.08% +20 mV	0.07% +6 mV	0.5% +200 mV	0.07% +50 mV
	Current	0.36% +15 mA	0.4% +100 mA	0.36% +35 mA	0.3% +25 mA	0.5% +50 mA	0.2% +11 mA
Load regulation							
Voltage	0.01%+	5 mV	3 mV	5 mV	2 mV	40 mV	3 mV
Current		0.01%+ 10 mA	0.01%+ 15 mA	0.01%+ 10 mA	0.01%+ 9 mA	0.03%+ 34 mA	0.01%+ 5 mA
Line regulation							
Voltage		0.01%+ 5 mV	0.01%+ 2 mV	0.01%+ 3 mV	0.01%+ 1 mV	0.03%+ 17 mV	0.01%+ 2 mV
Current		0.01%+ 5 mA	0.01%+ 25 mA	0.01%+ 10 mA	0.01%+ 6 mA	0.03%+ 17 mA	0.01%+ 2 mA
Transient response timeTime10% step changeLevel		2 ms 150 mV	2 ms 100 mV	2 ms 100 mV	1 ms 50 mV	5 ms 200 mV 7	1 ms 5 mV

### Autoranging: 200 W and 1000 W GPIB (Continued)

Specifications	6030A	6031A	6032A	6033A	6035A	6038A
(at 0° to 55°C unless otherwise specified)						

Supplemental Char	acteristics	(Non-warranted characteristics determined by design and useful in applying the product)						
Programming resolut	<b>ion</b> Voltage	50 mV	5 mV	15 mV	5 mV	125 mV 1	5 mV	
	Current	4.25 mA	30 mA	12.5 mA	7.5 mA	1.25 mA	2.5 mA	
DC floating voltage either terminal can be or floated from chassi	0	±550 V	±240 V	±240 V	±240 V	±550 V	±240 V	
AC input current	100 Vac	24 A	24 A	24 A	6 A	24 A	6 A	
	120 Vac	24 A	24 A	24 A	6.5 A	24 A	6.5 A	
	220 Vac	15 A	15 A	15 A	3.8 A	15 A	3.8 A	
	240 Vac	14 A	14 A	14 A	3.6 A	14 A	3.6 A	
Weight	Net	16.3 kg (36 lb)	17.2 kg (38 lb)	16.3 kg (36 lb)	9.6 kg (21 lb)	16.3 kg (36 lb)	9.6 kg (21 lb)	
	Shipping	21.8 kg (48 lb)	22.7 kg (50 lb)	21.8 kg (48 lb)	11.4 kg (25 lb)	21.8 kg (48 lb)	11.4 kg (25 lb)	

Agilent Models: 6030A, 6031A, 6032A, 6035A



#### More detailed specifications at www.agilent.com/find/6030

### Supplemental Characteristics for all model numbers

**Remote Sensing:** Up to 2 V drop in each lead. Voltage regulation specification met with up to 0.5 V drop, but degrades for greater drops.

**Modulation:** (analog programming of output voltage and current) Input signal: 0 to 5 V or 0 to 4 k Ohms

Software Driver: VXIPlug&Play

Warranty: One year

**Size:** 6030A–32A, 6035A: 425.5 mm W x 132.6 mm H x 503.7 mm D (16.75 in x 5.25 in x 19.83 in). 6033A, 6038A: 212.3 mm W x 177.0 mm H x 516.4 mm D (8.36 in x 6.97 in x 17.87 in).

### Autoranging: 200 W and 1000 W GPIB (Continued)

#### **Ordering Information**

**Opt 001** Front panel has only line switch, line indicator, and OVP adjust (6030A–33A and 6038A only)

**Opt 100** 87 to 106 Vac, 48 to 63 Hz (power supply output is derated to 75%)

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

Opt 220 191 to 233 Vac, 48 to 63 Hz

**Opt 240** 209 to 250 Vac, 48 to 63 Hz

**Opt 800** Rack-mount Kit for Two Half-rack Units Side by Side. Lock link Kit p/n 5061-9694 and 7 in Rack adapter Kit 5063-9215

- \* **Opt 908** Rack-mount Kit for a Single Half-rack Unit 6033A and 6038A (with blank filler panel); p/n 5062-3960, 6030A–32A and 6035A; p/n 5062-3977
- \* **Opt 909** Rack-mount Kit with Handles. For 6030A–32A, 6035A; p/n 5062-3983

**Opt 0L1** Full documentation on CD-ROM, and printed standard documentation package **Opt 0L2** Extra copy of standard printed documentation package **Opt 0B3** Service Manual

**Opt 0B0** Full documentation on CD-ROM only

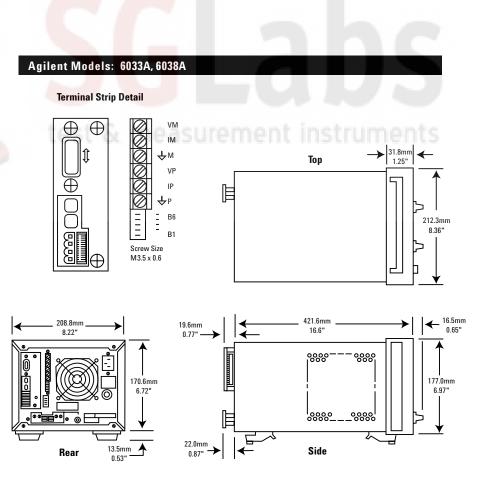
**Opt J01** Stabilization for loads up to 10 Henries (not available on 6033A)

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

#### Accessories

**5080-2148** Serial Link Cable, 2 m (6.6 ft)

1494-0060 Rack Slide Kit E3663AC Support rails for Agilent rack cabinets



More detailed specifications at www.agilent.com/find/6030

### 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.

### 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. 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.

### www.agilent.com

For more information on Agilent Technologies' products, applications or services, please contact your local Agilent office. The complete list is available at:

www.agilent.com/find/contactus

### **Phone or Fax**

United States: (tel) 800 829 4444 (fax) 800 829 4433

**Canada:** (tel) 877 894 4414 (fax) 800 746 4866

**China:** (tel) 800 810 0189 (fax) 800 820 2816

Europe: (tel) 31 20 547 2111

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

Korea: (tel) (080) 769 0800 (fax) (080) 769 0900

Latin America: (tel) (305) 269 7500

**Taiwan:** (tel) 0800 047 866 (fax) 0800 286 331

Other Asia Pacific Countries: (tel) (65) 6375 8100 (fax) (65) 6755 0042 Email: tm\_ap@agilent.com Contacts revised: 09/26/05

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

© Agilent Technologies, Inc. 2006 Printed in the USA, February 8, 2006



SgLabs www.sglabs.it email: m.sev@sglabs.it tel. +39 0755149360