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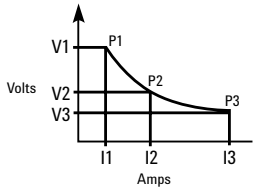


6030A, 6031A, 6032A, 6033A, 6035A, 6038A

# 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 VXI*Plug&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.

**Application 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

| **Specifications** (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 |
| **Autoranging output** | V1, $I_1$ | 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, $I_2$ | 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, $I_3$ | 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 |
| | 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 noise** 20 Hz to 20 MHz | Voltage rms | 22 mV | 8 mV | 8 mV | 3 mV | 50 mV | 3 mV |
| | p-p | 50 mV | 50 mV | 40 mV | 30 mV | 160 mV | 30 mV |
| | Current rms | 15 mA | 120 mA | 25 mA | 30 mA | 50 mA | 5 mA |
| **Readback accuracy** 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 time** 10% step change | Time | 2 ms | 2 ms | 2 ms | 1 ms | 5 ms | 1 ms |
| | Level | 150 mV | 100 mV | 100 mV | 50 mV | 200 mV 7 | 5 mV |

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



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

## Specifications

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

| 6030A | 6031A | 6032A | 6033A | 6035A | 6038A |
|---|---|---|---|---|---|

### 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:**
VXI*Plug&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).

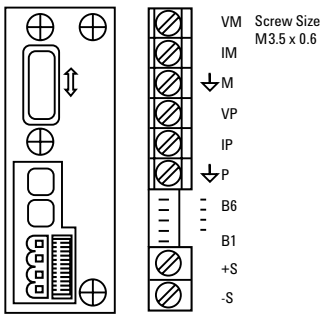
### Supplemental Characteristics

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

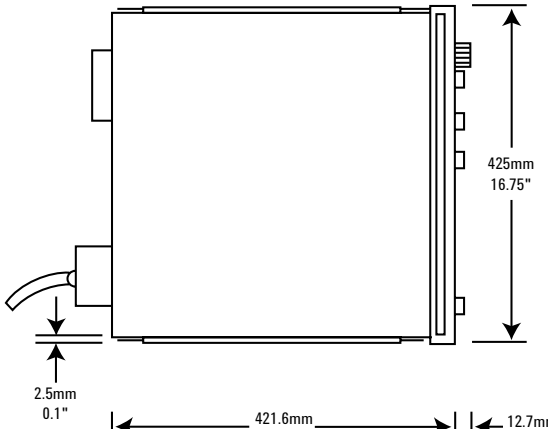
| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Programming resolution** | Voltage | 50 mV | 5 mV | 15 mV | 5 mV | 125 mV 1 | 5 mV |
| | Current | 4.25 mA | 30 mA | 12.5 mA | 7.5 mA | 1.25 mA | 2.5 mA |
| **DC floating voltage** either terminal can be grounded or floated from chassis ground | | ±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) |

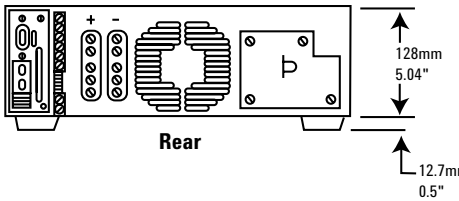
### Agilent Models: 6030A, 6031A, 6032A, 6035A

**Terminal Strip Detail**




**Top**




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



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# **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

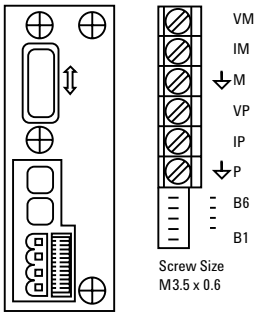
**5080-2148** Serial Link Cable, 2 m (6.6 ft)

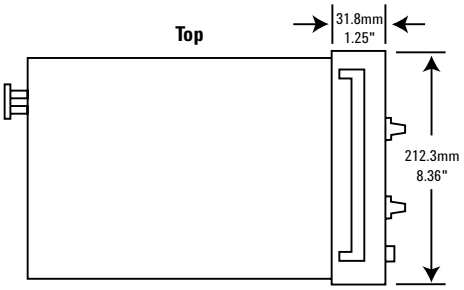
**1494-0060** Rack Slide Kit

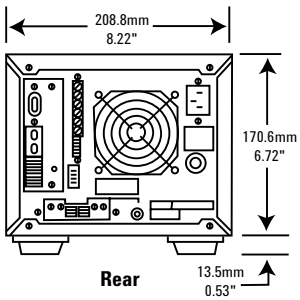
**E3663AC** Support rails for Agilent rack cabinets

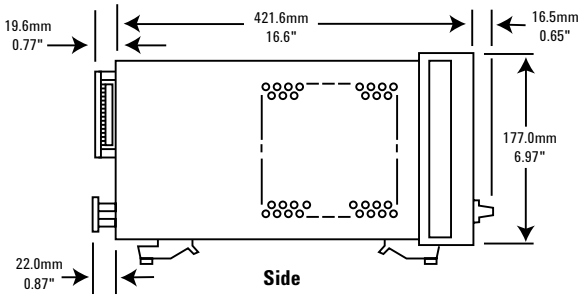
## Agilent Models: 6033A, 6038A

**Terminal Strip Detail**




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



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**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.

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