Single-Input: 250 W to 300 W



6060B and 6063B

Cost-effective for single input applications Convenient optional front panel input connection

	Specifications	6060B	6063B
d COCOD as sharperidae	Amperes	0 to 60 A	0 to 10 A
t This is more conve-	Volts	3 to 60 V	3 to 240 V
le input applications	Maximum power (at 40° C)	300 W	250 W
rame product.	Constant current mode		
1	Ranges	0 to 6 A, 0 to 60 A	0 to 1 A, 0 to 10 A
nic loads are particu- for the lab bench.	Accuracy	0.1% ±75 mA	0.15% ±10 mA
	Regulation	10 mA	8 mA
mands manually using	Constant voltage mode		
el keypad is simpler	Accuracy	0.1% ±50 mV	0.12% ±120 mV
channel does not need ed, as in a mainframe h. The keypad entry is lified because these not have the download- ture of the N3300A h helps to maximize	Regulation (w/remote sense)	10 mV	10 mV
	Constant resistance mode	0.033 to 1.0 Ω	0.20 to 24.0 Ω
	Ranges	1 to 1,000 Ω 10 to 10,000 Ω	24 to 10,000 Ω 240 to 50,000 Ω
	Accuracy	1 Ω : 0.8% ±8 m Ω (with ≥6 A at input) 1 K Ω : 0.3% ±8 mS (with ≥6 V at input) 10 K Ω : 0.3% ±8 mS (with ≥6 V at input)	24 Ω: 0.8% ±200 mΩ (with ≥1 A at input) 10 KΩ/: 0.3% ±0.3 mS (with ≥24 V at input) 50 KΩ: 0.3% ±0.3 mS (with ≥24 V at input)
aroughput. Extensive included to help valuable prototypes his includes overvolt- ent, overtemperature, nd reverse polarity. are suitable for ng test systems where speed is not critical. ustry standard tions, and also have	Transient generator		
	Frequency range Accuracy	0.25 Hz to 10 kHz 3%	0.25 Hz to 10 kHz 3%
	Duty cycle range	3 to 97% (0.25 Hz to 1 kHz) 6 to 94% (1 to 10 kHz) 6% of setting ±2%	3 to 97% (0.25 Hz to 1 kHz) 6 to 94% (1 to 10 kHz) 6% of setting +2%
	Current level high range Accuracy	60-A range: 0.1% ±350 mA	10-A range: 0.18% ±50 mA
	Current level low range Accuracy	6-A range: 0.1% ±80 mA	1-A range: 0.18% ±13 mA
	Voltage level Voltage level accuracy	3 to 60 V 0.1% ±300 mV	3 to 240 V 0.15% ±1.1 V
y drivers to simplify	Readback specifications		
n. For the greatest curacy in programming ment, see the N3300A electronic loads.	Current readback accuracy Voltage readback accuracy	0.05% ±65 mA ±(0.05% + 45 mV)	0.12% ±10 mA ±(0.1% + 150 mV)
	Ripple and noise (20-Hz to 10-MHz noise) Current Voltage	4 mA rms 40 mA peak-to-peak 6 mV rms	1 mA rms 10 mA peak-to-peak 6 mV rms

The 6060B ar one load inpu nient for sing than a mainf

These electron larly suited f Entering com the front pan because the c to be specifie configuration further simp products do : able LIST feat Series, which production th protection is protect your under test. Th age, overcurr overpower, an

These loads a manufacturin maximizing s They use ind SCPI instruct VXIPlug&Pla system design speed and ac and measure Series of dc e

Power Products Catalog 2002-2003

For more detailed specifications see the product manual at www.agilent.com/find/power

Single-Input: 250 W to 300 W (Continued)

6060B

Specifications

6063B

Notes:

- 1. Operating temperature range is 0° to 55°C. All specifications apply for 25°C ±5°C, except as noted.
- 2. Maximum continuous power available is derated linearly from $40\,^{\circ}\mathrm{C}$ to 75% of maximum at $55\,^{\circ}\mathrm{C}.$
- 3. dc current accuracy specifications apply 30 seconds after input is applied.

Supplemental Characteristics (Non-warranted characteristics determined by design that are useful in applying the product)		
Constant current mode	60-A range: 16 mA	10-A range: 2.6 mA
Resolution	6-A range: 1.6 mA	1-A range: 0.26 mA
Temperature coefficient	100 ppm/°C ±5 mA/°C	150 ppm/°C ±1 mA/°C
Constant voltage mode		
Resolution	16 mV	64 mV
Temperature coefficient	100 ppm/°C ±5 mV/°C	120 ppm/°C ±10 mV/°C
Constant resistance mode Resolution	1 Ω : 0.27 mΩ 1 KΩ: 0.27 mS 10 KΩ: 0.027 mS	24 Ω: 6 mΩ 10 KΩ: 0.011 mS 50 KΩ: 0.001 mS
Temperature coefficient	1 Ω: 800 ppm/°C ±0.4 mΩ/°C 1 KΩ: 300 ppm/°C ±0.6 mS/°C 10 KΩ: 300 ppm/°C ±0.6 mS/°C	24 Ω: 800 ppm/°C ±10 mΩ/°C 10 KΩ: 300 ppm/°C ±0.03 mS/°C 50 KΩ: 300 ppm/°C ±0.03 mS/°C
Transient generator		
Frequency range Resolution	0.25 Hz to 10 kHz 4% or less	0.25 Hz to 10 kHz 4% or less
Duty cycle range Resolution	3 to 97% (0.25 Hz to 1 kHz) 6 to 94% (1 to 10 kHz) 4%	3 to 97% (0.25 Hz to 1 kHz) 6 to 94% (1 to 10 kHz) 4%
Current level high range Resolution	60-A range: 260 mA	10-A range: 43 mA
Current level low range Resolution	6-A range: 26 mA	1-A range: 4 mA
Current temperature coefficient	100 ppm/°C ±7 mA/°C	180 ppm/°C ±1.2 mA/°C
Voltage level resolution	260 mV	1 V
Voltage temperature coefficient	150 ppm/°C ±5 mV/°C	120 ppm/°C ±10 mV/°C
Programmable slew rate	60-A range: 1 A/ms to 5 A/μs 6-A range: 0.1 A/ms to 0.5 A/μs	10-A range: 0.17 A/ms to 0.83 A/µs 1-A range: 17 A/ms to 83 A/ms
Rise/fall time	12 µs to 8 ms	16 µs to 8 ms
Analog programming bandwidth	10 kHz (-3 dB frequency)	10 kHz (-3 dB frequency)
Analog programming accuracy		
Current (low range)	4.5% ±75 mA	3% ±8 mA
Current (high range)	4.5% ±250 mA	3% ±20 mA
Temperature coefficient	100 ppm/°C ±6 mA/°C	150 ppm/°C ±1 mA/°C
Voltage	0.8% ±200 mV	0.5% ±150 mV
Temperature coefficient	100 ppm/°C ±1 mV/°C	120 ppm/°C ±10 mV/°C
Analog programming voltage	0 to 10 V	0 to 10 V
Readback specifications	17 mA (via GPIB)	2.7 mA (via GPIB)
Current readback resolution	20 mA (front panel)	10 mA (front panel)
Temperature coefficient	50 ppm/°C ±5 mA/°C	100 ppm/°C ±1 mA/°C
Voltage readback resolution	17 mV (via GPIB) 20 mV (front panel)	67 mV (via GPIB) 100 mV (front panel)
Temperature coefficient	50 ppm/°C ±1.2 mV/°C	100 ppm/°C ±8 mV/°C

For more detailed specifications see the product manual at www.agilent.com/find/power

Single-Input: 250 W to 300 W (Continued)

6060B

Specifications

6063B

Notes:

- 1. Operating temperature range is 0° to 55 °C. All specifications apply for 25 °C ±5 °C, except as noted.
- 2. Maximum continuous power available is derated linearly from $40\,^{\circ}\mathrm{C}$ to 75% of maximum at $55\,^{\circ}\mathrm{C}.$
- 3. dc current accuracy specifications apply 30 seconds after input is applied.

Supplemental Characteristics for all model numbers

Weight: 6.12 kg (13.5 lb) net; 8.16 kg (18 lb) shipping

Size: 425.5 mm W x 88.1 mm H x 396 mm D (16.75 in x 3.5 in x 13.7 in)

See page 100 for more details.

Ordering Information

Opt 020 Front Panel dc Input Connectors Opt 100 87 to 106 Vac, 47 to 66 Hz input (for Japan only) Opt 120 104-127 Vac, 47 to 66 Hz Opt 220 191 to 233 Vac, 47 to 66 Hz input Opt 240 209 to 250 Vac, 47 to 66 Hz input * Opt 908 Rack-mount Kit (p/n 5063-9212)

- * Opt 909 Rack-mount Kit with Handles (p/n 5063-9219)
 Opt 0B0 no manuals included
 Opt 0L2 additional set of standard documentation
 Opt 0B3 Service Manual
- * Support rails required

Accessories

E3663AC Support rails for Agilent rack cabinets

Supplemental Characteristics	(Non-warranted characteristics determined by design that are		
(Continued)	useful in applying the product)		
Analog monitor accuracy			
Current monitor (0 to 10 V out)	4% ±85 mA	3% ±10 mA	
Temperature coefficient	50 ppm/°C ±6 mA/°C	100 ppm/°C ±1 mA/°C	
Voltage monitor (0 to 10 V out)	0.25% ±40 mV	0.4% ±240 mV	
Temperature coefficient	50 ppm/°C ±0.2 mV/°C	70 ppm/°C ±1.2 mV/°C	
Remote sensing	5-Vdc maximum between sense and load input	5-Vdc maximum between sense and load input	
Minimum operating voltage (at full rated current)	2 volts (1.2 V typical)	2 volts (1.2 V typical)	
Programmable short	0.033 Ω (0.020 Ω typical)	0.20 Ω (0.10 Ω typical)	
Programmable open (typical)	20 kΩ	80 kΩ	
Drift (over 8-hour interval)			
Current	0.03% ±10 mA	0.03% ±15 mA	
Voltage	0.01% ±10 mV	0.01% ±20 mV	
dc isolation voltage	±240 Vdc, between any input and chassis ground	±240 Vdc, between any input and chassis ground	
Digital inputs	V_{IL} = 0.9 V max at I_{IL} = -1 mA / V_{IH} = 3.15 V min (pull-up resistor on input)	V_{IL} = 0.9 V max at I _{IL} = -1 mA / V _{IH} = 3.15 V min (pull-up resistor on input)	
Digital outputs	V_{OL} = 0.72 V max at I _{OL} = 1 mA / V _{OH} = 4.4 V min at I _{OH} = -20 µA	V_{OL} = 0.72 V max at I _{OL} = 1 mA / V _{OH} = 4.4 V min at I _{OH} = -20 µA	
Net weight (approx.)	6.12 kg (13.5 lb)	6.12 kg (13.5 lb)	
Shipping weight	8.16 kg (18 lb)	8.16 kg (18 lb)	

Power Products Catalog 2002-2003 For more detailed specifications see the product manual at www.agilent.com/find/power

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 <u>www.agilent.com/find/power</u> 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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