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## Single-Output: 2000 W GPIB



## Proven reliability

Increase test throughput with fast up and down programming High efficiency

Low ripple and noise

	Specification (at 0° to 55°C unless otherwise specified)	S	6671A	6672A	6673A	6674A	6675A
This series of 2000 watt dc power	Number of outputs		1	1	1	1	1
supplies has the exceptional, proven	GPIB		Yes	Yes	Yes	Yes	Yes
reliability that test system engineers	Output ratings						
look for. It also has the unusual	Output voltage		0 to 8 V	0 to 20 V	0 to 35 V	0 to 60 V	0 to 120 V
combination of high efficiency	Output current		0 to 220 A	0 to 100 A	0 to 60 A	0 to 35 A	0 to 18 A
and low noise operation.	Programming accuracy at 25						
Programming of the de output and	Voltage 0.	.04% +	8 mV	20 mV	35 mV	60 mV	120 mV
Programming of the dc output and the extensive protection features	Current	0.1% +	125 mA	60 mA	40 mA	25 mA	12 mA
can be done either from the front	Ripple and noise						
panel or using industry standard	from 20 Hz to 20 MHz						
SCPI commands, via the GPIB.	Voltage rms		650 µV	750 µV	800 µV	1.25 mV	1.9 mV
Using the serial link, up to 16 power	Voltage peak to peak		7 mV	9 mV	9 mV	11 mV	16 mV
supplies can be connected through	Current rms		200 mA	100 mA	40 mA	25 mA	12 mA
one GPIB address. Test system integration can be further simplified be using the VXI <i>Plug&amp;Play</i> drivers. The output voltage and current can also be controlled with analog	Readback accuracy at 25°C (percent of reading plus fixe						
	Voltage 0.	.05% +	12 mV	30 mV	50 mV	90 mV	180 mV
	±Current	0.1% +	150 mA	100 mA	60 mA	35 mA	18 mA
	Load regulation						
signals. This is helpful for certain	Voltage 0.0	002%+	300 µV	650 µV	1.2 mV	2 mV	4 mV
types of noisy environments, and	Line regulation						
also immediate reactions to process changes. Lab-bench use is enhanced by the	Current 0.0	005%+	10 mA	7 mA	4 mA	2 mA	1 mA
	Transient response time		Less than 900 $\mu s$ for the output voltage to recover 100 mV following a change in load from 100% to 50% or 50% to 100% of the output current rating of the supply				
fan-speed control, which minimizes acoustic noise. The extremely low	Supplemental Characteristics		(Non-warranted characteristics determined by design and useful in applying the product)				
ripple and noise helps the built-in	Average resolution						
measurement system make extreme-	Voltage		2 mV	5 mV	10 mV	15 mV	30 mV
ly accurate current and voltage	Current		55 mA	25 mA	15 mA	8.75 mA	4.5 mA
measurements.	OVP		15 mV	35 mV	65 mV	100 mV	215 mV
	Output Voltage programmin response time*	ng					
	(excluding command processing time)		30 ms	60 ms	130 ms	130 ms	195 ms
	* Full load programming rise/fall time (10% to 90% or 90% to 10%) with full resistive load equal to rated output						

Full load programming rise/fall time (10% to 90% or 90% to 10%) with full resistive load equal to rated output voltage/rated output current.

Power Products Catalog 2002-2003

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

Cnadifications

## Single-Output: 2000 W GPIB (Continued)

66710- 66710- 66710- 66720- 66730-

Supplemental Characteristics	
for all model numbers	

**dc Floating Voltage**: Output terminals can be floated up to ±240 Vdc from chassis ground

**Output Common-Mode Noise Current:** (to signal ground binding post) 500 µA rms, 4 mA peak-to-peak

**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.

**Command Processing Time:** Average time required for the output voltage to begin to change following receipt of digital data is 20 ms for the power supplies connected directly to the GPIB.

Modulation: (Analog programming of output voltage and current) Input Signal: 0 to -4 V for voltage, 0 to 7 V for current

Input Impedance: 60 k Ohm or greater

Input Power: 3,800 VA, 2,600 W at full load; 170 W at no load

GPIB Interface Capabilities: SH1, AH1, T6, L4, SR1, RL1, PP0, DC1, DT1, E1, and C0. IEEE-488.2 and SCPI-compatible command set

**Regulatory Compliance:** Listed to UL1244; certified to CSA556B; conforms to IEC 61010-1.

Size: 425.5 mm W x 132.6 mm H x 640 mm D (16.75 in x 5.22 in x 25.2 in) See page 102 for more details

Weight: Net, 28.2 kg (62 lbs); shipping, 31.8 kg (70 lbs)

Warranty Period: Three years

Specificati (at 0° to 55°C unless otherwise specified)	IONS	<b>J03</b> Special Order Option	<b>J04</b> Special Order Option	<b>J17</b> Special Order Option	<b>J04</b> Special Order Option	<b>J03</b> Special Order Option	
Number of outputs		1	1	1	1	1	
GPIB		Yes	Yes	Yes	Yes	Yes	
Output ratings							
Output voltage		14 V	10 V	15 V	24 V	37.5 V	
Output current		150 A	200 A	120 A	85 A	45 A	
Programming accuracy	/ at 25°C ±5°C						
Voltage	0.04%+	14 mV	10 mV	15 mV	25 mV	37.5 mV	
Current	0.1%+	90 mA	125 mA	90 mA	60 mA	40 mA	
Ripple and noise							
from 20 Hz to 20 MHz							
Voltage rms		1.5 mV	750 µV	1.5 mV	1 mV	800 µV	
Voltage peak to peak		15 mV	9 mV	15 mV	11 mV	9 mV	
Current rms		150 mA	200 mA	150 mA	100 mA	40 mA	
Readback accuracy a (percent of reading plu System models only							
Voltage	0.05% +	25 mV	15 mV	27 mV	40 mV	53.5 mV	
±Current	0.1% +	110 mA	150 mA	110 mA	100 mA	60 mA	
Load regulation							
Voltage	0.002%+	600 µV	300 µV	650 µV	650 µV	1.2 mV	
Line regulation							
Current	0.005%+	7 mA	10 mA	7 mA	7 mA	4 mA	
Transient response tir	ne	Less than 900 µs for the output voltage to recover 100 mV following a					

ime Less than 900 μs for the output voltage to recover 100 mV following a change in load from 100% to 50% or 50% to 100% of the output current rating of the supply

Supplemental Characteristics	(Non-warranted characteristics determined by design and useful in applying the product)					
Average resolution						
Voltage	4 mV	2.5 mV	4 mV	6 mV	10 mV	
Current	40 mA	55 mA	35 mA	22 mA	15 mA	
OVP	28 mV	20 mV	30 mV	42 mV	65 mV	
Output Voltage programming response time*						
(excluding command programming processing time)	30 ms	35 ms	35 ms	70 ms	130 ms	

\* Full load programming rise/fall time (10% to 90% or 90% to 10%) with full resistive load equal to rated output voltage/rated output current.

## Single-Output: 2000 W GPIB (Continued)

	Specificat (at 0° to 55°C unless otherwise specified)	ions	6673A- J08 Special Order Option	6674A- J03 Special Order Option	6674A- J07 Special Order Option	<b>6675A-</b> <b>J04</b> Special Order Option	6675A- J06 Special Order Option
	Number of outputs		1	1	1	1	1
Ondenie a las forma etien	GPIB		Yes	Yes	Yes	Yes	Yes
Ordering Information	Output ratings						
<b>Opt 200</b> 174 to 220 Vac, 47 to 63 Hz	Output voltage		40 V	56 V	50 V	160 V	135 V
(Japan only)	Output current		50 A	38 A	42 A	13 A	16 A
<b>Opt 230</b> 191 to 250 Vac, 47 to 63 Hz	Programming accuracy	at 25°C ±5°C					
* <b>Opt 908</b> Rack-mount Kit (p/n 5062-3977)	Voltage	0.04%+	40 mV	60 mV	60 mV	160 mV	125 mV
* Opt 909 Rack-mount Kit w/handles	Current	0.1%+	35 mA	28 mA	30 mA	10 mA	12 mA
(p/n 5063-9221)	Ripple and noise						
<b>Opt 0L2</b> Extra Standard Documentation Package	from 20 Hz to 20 MHz						
Opt 0B3 Service Manual	Voltage rms		1 mV	1.25 mV	1.25 mV	2.8 mV	2 mV
<b>Opt 0B0</b> No documentation package	Voltge peak to peak		10.5 mV	11 mV	11 mV	20 mV	18 mV
* Support rails required	Current rms		40 mA	28 mA	25 mA	18 mA	12 mA
Accessories p/n 1494-0059 Accessory Slide Kit	Readback accuracy a (percent of reading plu System models only						
p/n 1252-3698 7-pin Analog Plug	Voltage	0.05%+	60 mV	90 mV	90 mV	240 mV	185 mV
<b>p/n 1252-1488</b> 4-pin Digital Plug	±Current	0.1%+	60 mA	38 mA	42 mA	14 mA	18 mA
p/n 5080-2148 Serial Link Cable	Load regulation						
2 m (6.6 ft)	Voltage	0.002%+	1.4 mV	2 mV	2 mV	6 mV	4 mV
E3663AC Support rails for Agilent rack cabinets	Line regulation						
Agnent fack cabinets	Current	0.005%+	4 mA	2 mA	2 mA	1 mA	4 mV
	Transient response tir	ne		from 100% to 5		over 100 mV follo 10% of the outpu	
	Supplemental Char	racteristics		ed characteristic ing the product)		y design and	
	Average resolution						
	Voltage		10.5 mV	14 mV	12 mV	40 mV	34 mV
	Current		12.5 mA	9.5 mA	11 mA	3.25 mA	4 mA
	OVP		75 mV	100 mV	85 mV	300 mV	242 mV
	Output Voltage progra response time*	amming					

130 ms

130 ms

280 ms

250 ms

130 ms

voltage/rated output current.

(excluding command

## Single-Output: 2000 W GPIB (Continued)

Specifications (at 0° to 55°C unless otherwise specified)	6675A- J07 Special Order Option	6675A- J08 Special Order Option	6675A- J09 Special Order Option	6675A J11 Special Order Option		
Number of outputs	1	1	1	1		
GPIB	Yes	Yes	Yes	Yes		
Output ratings						
Output voltage	200 V	100 V	110 V	150 V		
Output current	11 A	22 A	20 A	15 A		
Programming accuracy at 25°C ±5°C						
Voltage 0.04%+	200 mV	120 mV	120 mV	150 mV		
Current 0.1%+	8 mA	15 mA	13.5 mA	11 mA		
Ripple and noise						
from 20 Hz to 20 MHz						
Voltage rms	3.5 mV	1.9 mV	1.9 mV	2.5 mV		
Voltge peak to peak	25 mV	16 mV	16 mV	18 mV		
Current rms	15 mA	15 mA	13.5 mA	12 mA		
Readback accuracy at 25°C ±5°C (percent of reading plus fixed) System models only						
Voltage 0.05%+	300 mV	180 mV	180 mV	225 mV		
±Current 0.1%+	12 mA	22 mA	20 mA	15 mA		
Load regulation						
Voltage 0.002% +	7 mV	4 mV	4 mV	6 mV		
Line regulation						
Current 0.005% +	1 mA	4 mV	4 mV	1 mA		
Transient response time	Less than 900 µs for the output voltage to recover 100 mV following a change in load from 100% to 50% or 50% to 100% of the output current rating of the supply					
Supplemental Characteristics	(Non-warranted cl useful in applying	naracteristics deterr the product)	nined by design and	l		
Average resolution						
Voltage	50 mV	30 mV	30 mV	37.5 mV		
Current	2.75 mA	4.5 mA	4.5 mA	3.75 mA		
OVP	360 mV	215 mV	215 mV	270 mV		
Output Voltage programming response time*						
(excluding command programming processing time)	350 ms	195 ms	195 ms	250 ms		

\* Full load programming rise/fall time (10% to 90% or 90% to 10%) with full resistive load equal to rated output voltage/rated output current.

## 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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