AGILENT SYSTEM dc POWER SUPPLIES

Precision Measurement, Single-Output: 40 W and 50 W

9999#8 12879# Loose 2 Matter 3 Matter 4 A 5 Million - Datest - Loose -Pecell , Potect + + Current Conjust Enter 6611C - 6614C

Precision low current measurement Low output noise High speed programming GPIB and RS-232 interface SCPI (Standard Commands for programmable instruments) VXIplug&play drivers

SPECIFICATIONS

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

<			6611C	6612C	6613C	6614C
Output Ratings	Voltage/Current		0 to 8 V/0 to 5 A	0 to 20 V/0 to 2 A	0 to 50 V, 0 to 1 A	0 to 100 V/0 to 0.5 A
Programming accuracy (at 25°C ±5°C)	Voltage/+Current	0.05% +	5 m V/2 m A	10 m V/1 m A	20 m V/0.75 m A	50 m V/0.5 m A
Ripple and noise	Voltage Normal mode					
20 Hz to 20 MHz, with outputs ungrounded	i ontago normanno	rms/p-p	0.5 mV/3 mV	0.5 mV/3 mV	0.5 mV/4 mV	0.5 mV/5 mV
or with either terminal grounded		rms	2 mA	1 mA	1 mA	1 mA
dc measurement accuracy	Voltage	0.03% +	2 mV	3 mV	6 mV	12 mV
via GPIB or front-panel meters	Low current range					
respect to actual output at 25°C ±5°C	-20 mA to + 20 mA	0.1% +	2.5 µA	2.5 µA	2.5 µA	2.5 µA
	High current range					
	+20 mA to + rated 1	0.2% +	0.5 mA	0.25 mA	0.2 mA	0.1 mA
	-20 mA to - rated 1	0.2% +	1.1 mA	0.85 mA	0.8 mA	0.7 mA
Load regulation	Voltage/Current		2 mV/1 mA	2 mV/0.5 mA	4 mV/0.5 mA	5 mV/0.5 mA
Line regulation	Voltage/Current		0.5 mV/ 0.5 mA	0.5 mV/0.5 mA	1 mV/0.25 mA	1 mV/0.25 mA
Transient response time	Less than 100 µs for the output 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 the output current rating of the supply					
Supplemental Characteristics	(Non-warranted characteristics determined by design and useful in applying the product)					
Average programming resolution	Voltage/Current		2 mV/1.25 mA	5 mV/0.5 mA	12.5 mV/0.25 mA	25 mV/0.125 mA
Sink current			3 A	1.2 A	0.6 A	0.3 A

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

Remote Sensing: Up to two volts dropped in each load lead. Add 2 mV to the voltage load regulation specification for each one volt change in the postive output lead due to load current change.

Command Processing Time: Average time required for the output voltage to begin to change following receipt of digital date is 4 ms for the power supplies connected directly to the GPIB.

Output Programming Response Time: The rise and fall time (10/90%)and 90/10% of the output voltage is less than 2 ms. The output voltage change settles within 1 LSB (0.025% x rated voltage) of final value in less than 6 ms.

GPIB Interface Capabilities: IEEE-488.2, SCPI command set, and 6630A Series programming compatability

Input Power: (full load): 1.6 A, 100 W (6611C: 2.2 A, 120 W)

Regulatory Compliance: Complies with EMC directive 89/336/EEC (ISM 1B). See page 73 for more information.

Warranty Period: Three years

Size: 212.8 mm W x 88.1 mm H x 368.3 mm D (8.4 in x 3.5 in x 14.5 in) See page 54 for more details

Weight: 8.2 kg (18.16 lb) net; 10.6 kg (23.5 lb) shipping

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 230** 207 to 253 Vac, 47 to 63 Hz

Opt 760 Isolation and Reversal relays

*Opt ICM Rack-mount Kit (p/n 5063-9240)

*Opt AXS Rack-mount Kit side-by-side mounting of two units, Lock-link Kit p/n 5061-9694; Flange Kit p/n 5062-3974 **Opt 0L2** Additional standard documentation package

Opt 0B3 Service Manual *Support rails required

ACCESSORIES

Rack-mount and slide for two side-by-side units of different lengths p/n 1494-0015, 5063-9255 and filler panel 5002-3999

Rack-mount slide and support for one instrument p/n 1494-0015, 5063-9255 and filler panel 5002-3999 E3663AC Support rails for Agilent rack cabinets

System dc Powe Supplies

Your Requested Excerpt from the Agilent Power Products Catalog

The preceding page(s) are an excerpt from the 2001-2002 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 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.

Please give us a call at your local Agilent Technologies sales office, or call a regional office listed below, for assistance in choosing or using Agilent power products.

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

