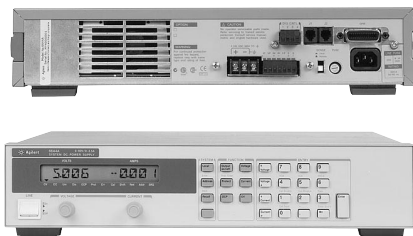


Single-Output 200 W GPIB



6641A - 6645A

- Fast, low-noise outputs
- Analog control of output voltage and current
- Fan-speed control to minimize acoustic noise
- Parallel and series connections of multiple units
- Built-in measurements and advanced programmable features
- Protection features to ensure DUT safety

This series of 200 W linear-regulated DC power supplies is designed to maximize the throughput of DUTs through the manufacturing test process with fast up and down programming time.

Valuable assemblies can be destroyed by a minor component failure that can allow a surge of voltage or current to flow to the DUT. Fast protection features, including fast crowbar, mode crossover protection, and the ability to connect the protection circuitry of multiple power supplies can increase production yield.

Programming of the DC output and the protection features can be done either from the front panel or using industry standard SCPI commands, via the GPIB. Using the serial link, up to 16 power supplies can be connected through one GPIB address. Test system integration can be further simplified by using the *VXIPlug&Play* drivers. The output voltage and current can also be controlled with analog signals. This is helpful for certain types of noisy environments, and also immediate reactions to process changes.

Lab bench use is enhanced by the fan speed control, which helps to minimize the acoustic noise.

Specifications

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

	6641A	6642A	6643A	6644A	6645A
Number of outputs	1	1	1	1	1
GPIB	Yes	Yes	Yes	Yes	Yes
Output ratings					
Output voltage	0 to 8 V	0 to 20 V	0 to 35 V	0 to 60 V	0 to 120 V
Output current (40° C)	0 to 20 A	0 to 10 A	0 to 6 A	0 to 3.5 A	0 to 1.5 A
Maximum current (50° C/55° C)	18 A/17 A	9 A/8.5 A	5.4 A/5.1 A	3.2 A/3 A	1.4 A/1.3 A
Programming accuracy at 25°C ±5°C					
Voltage	0.06% + 5 mV	10 mV	15 mV	26 mV	51 mV
Current	0.15% + 26 mA	13 mA	6.7 mA	4.1 mA	1.7 mA
Ripple and noise from 20 Hz to 20 MHz					
Voltage rms	300 µV	300 µV	400 µV	500 µV	700 µV
peak-peak	3 mV	3 mV	4 mV	5 mV	7 mV
Current rms	10 mA	5 mA	3 mA	1.5 mA	1 mA
Readback accuracy at 25°C ±5°C (percent of reading plus fixed)					
Voltage	0.07% + 6 mV	15 mV	25 mV	40 mV	80 mV
+Current	0.15% + 18 mA	9.1 mA	5 mA	3 mA	1.3 mA
-Current	0.35% + 40 mA	20 mA	12 mA	6.8 mA	2.9 mA
Load regulation					
Voltage	1 mV	2 mV	3 mV	4 mV	5 mV
Current	1 mA	0.5 mA	0.25 mA	0.25 mA	0.25 mA
Line regulation					
Voltage	0.5 mV	0.5 mV	1 mV	1mV	2 mV
Current	1 mA	0.5 mA	0.25 mA	0.25 mA	0.25 mA
Transient response time Less than 100 µs for the output voltage 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 rated current					
Supplemental Characteristics (Non-warranted characteristics determined by design and useful in applying the product)					
Average resolution					
Voltage	2 mV	5 mV	10 mV	15 mV	30 mV
Current	6 mA	3 mA	2 mA	1.2 mA	0.5 mA
OVP	13 mV	30 mV	54 mV	93 mV	190 mV
OVP accuracy	160 mV	400 mV	700 mV	1.2 V	2.4 V

Single-Output: 200 W GPIB (Continued)

AC Input: (AC input frequency 47 to 63 Hz)

Voltage 100 Vac 120 Vac 220 Vac 240 Vac
Current 4.4 A 3.8 A 2.2 A 2.0 A

Input Power 480 VA, 400 W at full load;
 60 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

Software Driver:

- IVI-COM
- VXIPlug&Play

Regulatory Compliance: Complies with UL 3111-1, IEC 61010-1.

Size: 425.5 mm W x 88.1 mm H x 439 mm D (16.75 in x 3.5 in x 17.3 in)

Weight: Net, 14.2 kg (31.4 lb); shipping, 16.3 kg (36 lb)

Warranty Period: One year

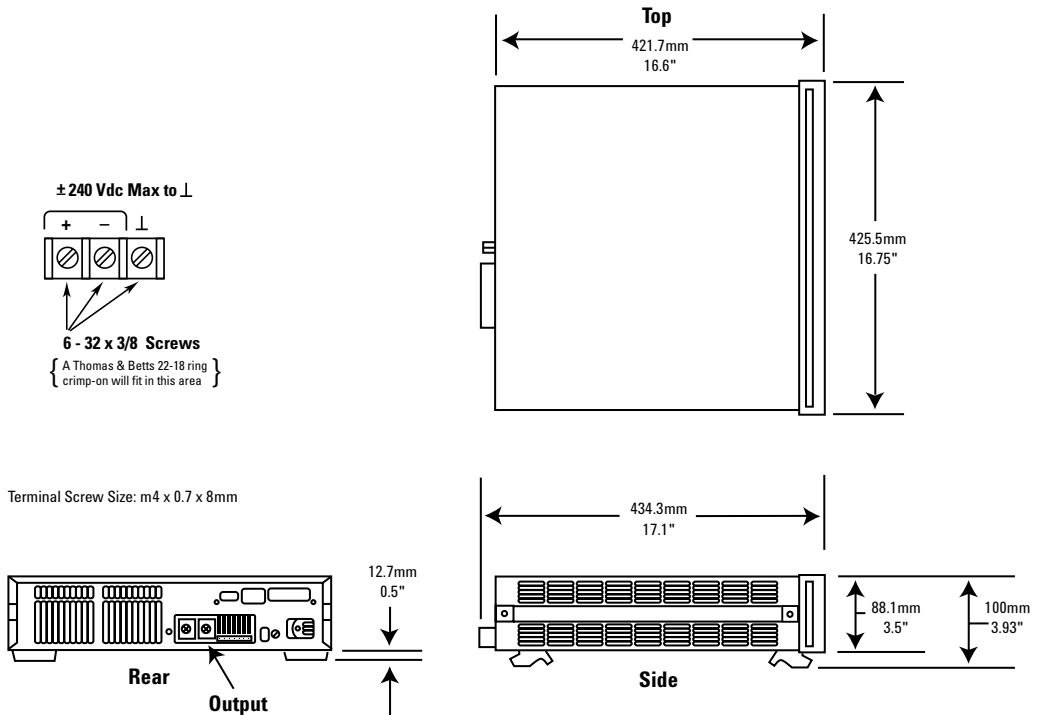
Ordering Information

- 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 240** 209 to 250 Vac, 47 to 63 Hz
 - * **Opt 908** Rack-mount Kit (p/n 5063-9212)
 - * **Opt 909** Rack-mount Kit w/ Handles (p/n 5063-9219)
 - * **Opt 1CP** Rack-mount Kit with Handles, p/n 5063-9219
 - Opt 0L1** 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 0B3** Service Manual
- * Support rails required

Accessories

- p/n **1494-0060** Accessory Slide Kit
- p/n **1252-3698** 7-pin Analog Plug
- p/n **1252-1488** 4-pin Digital Plug
- p/n **5080-2148** Serial Link Cable 2 m (6.6 ft)
- E3663AC** Support rails for Agilent rack cabinets

Agilent Models: 6641A, 6642A, 6643A, 6644A, 6645A



More detailed specifications at www.agilent.com/find/6640