

Two, three, or four isolated outputs are integrated into one package, conserving rack space and GPIB addresses. Most of the outputs also provide dual ranges, for more current at lower voltage levels. The outputs can be connected in parallel or series to further increase the flexibility that these products offer the system designer.

Programming is done using industry standard SCPI commands. Test system integration can be further simplified by using the VXIplug&play drivers. These power supplies help reduce test time with fast up and down programming, enhanced by an active downprogrammer which can sink the full rated current.

Specifications

Specifications (at 0 ° to 55 ° unless otherwise specified)	40 W output	40 W output	80 W output	80 W output	105 W output	
Output power						
Low-range; voltage, current	0 to 7 V 0 to 5 A	0 to 20 V 0 to 2 A	0 to 7 V 0 to 10 A	0 to 20 V 0 to 4 A	0 to 35 V 0 to 3 A	
High-range; voltage, current	0 to 20 V 0 to 2 A	0 to 50 V 0 to 0.8 A	0 to 20 V 0 to 4 A	0 to 50 V 0 to 2 A	— —	
Output combinations for each model (total number of outputs)						
6621A (2)	—	—	2	—	—	
6622A (2)	—	—	—	2	—	
6623A (3)	1	1	1	—	—	
6624A (4)	2	2	—	—	—	
6627A (4)	—	4	—	—	—	
6623A-J03 (3) Special order option	—	2	—	—	1	
Programming accuracy at 25 °C ± 5 °C						
Voltage	0.06% +	19 mV	50 mV	19 mV	50 mV	35 mV
Current	0.16% +	50 mA	20 mA	100 mA	40 mA	30 mA
Readback accuracy at 25 °C ± 5 °C						
Voltage	0.05% +	20 mV	50 mV	20 mV	50 mV	35 mV
+Current	0.1% +	10 mA	4 mA	20 mA	8 mA	6 mA
–Current	0.2% +	25 mA	8 mA	50 mA	20 mA	15 mA
Ripple and noise (peak-to-peak, 20 Hz to 20 MHz; rms, 20 Hz to 10 MHz)						
Constant voltage rms	500 µV	500 µV	500 µV	500 µV	500 µV	
peak-to-peak	3 mV	3 mV	3 mV	3 mV	3 mV	
Constant current rms	1 mA	1 mA	1 mA	1 mA	1 mA	
Load regulation						
Voltage	2 mV	2 mV	2 mV	2 mV	2 mV	
Current	1 mA	0.5 mA	2 mA	1 mA	2 mA	
Load cross regulation						
Voltage	1 mV	2.5 mV	1 mV	2.5 mV	2 mV	
Current	1 mA	0.5 mA	2 mA	1 mA	2 mA	
Line regulation						
Voltage	0.1% +	1 mV	1 mV	1 mV	1 mV	
Current	0.06% +	1 mA	01 mA	01 mA	1 mA	
Transient response time	Less than 75 µs for the output to recover to within 75 mV of nominal value following a load change within specifications					
Supplemental Characteristics (Non-warranted characteristics determined by design and useful in applying the product)	40 W output	40 W output	80 W output	80 W output	105 W output	
Average programming resolution						
Voltage	6 mV	15 mV	6 mV	15 mV	10.5 mV	
Current	25 mA	10 mA	50 mA	20 mA	15 mA	
OVP	100 mV	250 mV	100 mV	250 mV	175 mV	
Output programming response time (time to settle within 0.1% of full scale output, after Vset command has been processed)	2 ms	6 ms	2 ms	6 ms	6 ms	

Supplemental characteristics
for all model numbers

DC floating voltage: Output terminals can be floated up to ± 240 VDC from chassis ground

Remote sensing: Up to 1 V drop per load lead. The drop in the load leads subtracts from the voltage available for the load.

Command processing time: 7 ms typical with front-panel display disabled

Output programming: Current sink limits are fixed approximately 10% higher than source limits for a given operating voltage above 2.5 V.

Input power: 550 W max., 720 VA max.

GPIB interface capabilities: SH1, AH1, T6, L4, SR1, RL1, PP1, DC1, DT0

Software driver: VXIplug&play

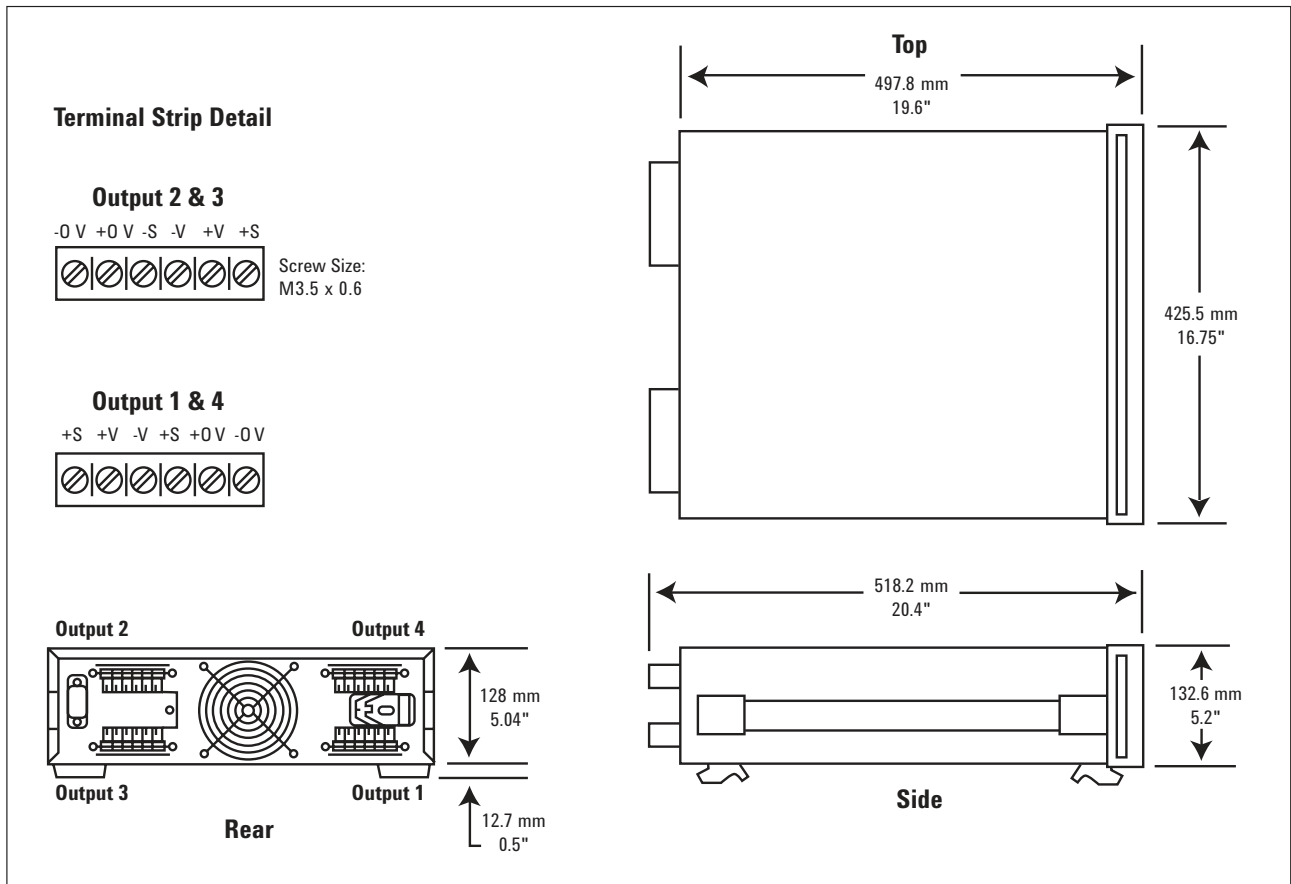
Regulatory compliance: Listed to UL1244; conforms to IEC 61010-1; carries the CE mark.

Size: 425.5 mm W x 132.6 mm H x 497.8 mm D
(16.75 in x 5.22 in x 19.6 in)

Weight: Net, 17.4 kg (38 lb); shipping, 22.7 kg (50 lb)

Warranty: One year

Keysight Models: 6621A, 6622A, 6623A, 6624A, 6627A



Ordering information

Product ships with full documentation on CD-ROM.
CD-ROM includes operating manual, service manual, and application notes.

Opt 100 87 to 106 VAC, 47 to 66 Hz input, 6.3 A
(Japan only)

Opt 120 104 to 127 VAC, 47 to 63 Hz

Opt 220 191 to 233 VAC, 47 to 66 Hz

Opt 240 209 to 250 VAC, 47 to 66 Hz input, 3.0 A

Opt 750 Relay control and DFI/RI

Opt S50 Similar to Option 750, however the remote inhibit does not latch

Opt 0L1 Printed operating manual

Opt 0B3 Printed service manual (in English)

Accessories

1CM003A* Rack mount flange kit 132.6 mm H (3U)
– two flange brackets

1CP002A* Rack mount flange and handle kit 132.6
mm H (3U) – two brackets and front
handles

E3663AC* Support rails for Keysight rack cabinets
p/n 1494-0059 Rack slide kit

Application notes

*10 Practical Tips You Need to Know About Your
Power Products*, 5965-8239E

*10 Hints for Using Your Power Supply to Decrease
Test Time*, 5968-6359E

*Understanding Linear Power Supply Operation
(AN1554)*, 5989-2291EN

*Modern Connectivity—Using USB and LAN I/O
Converters (AN 1475-1)*, 5989-0123EN

*Support rails required

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