

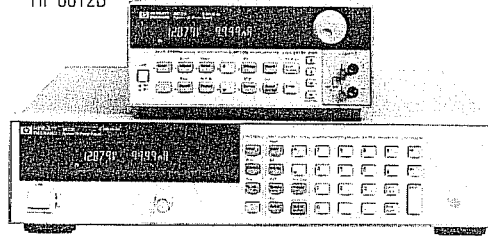
POWER SUPPLIES

Precision Measurement Single-Output System, 40 W and 100 W

HP 6612B, 6632B, 6633B, 6634B

- Precision low current measurement
- Low-output noise
- High-speed programming
- HP-IB and RS-232 interface
- SCPI (Standard Commands for Programmable Instruments)

HP 6612B



HP 6632B
6633B, 6634B



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

		HP 6612B	HP 6632B	HP 6633B	HP 6634B	
Output ratings	Voltage/Current	0 to 20 V/0 to 2 A	0 to 20 V/0 to 5 A	0 to 50 V/0 to 2 A	0 to 100 V/0 to 1 A	
Programming accuracy at 25° C ±5° C	Voltage/+ Current	0.05% +	10 mV/1 mA	10 mV/2 mA	20 mV/1 mA	50 mV/0.5 mA
Ripple and noise (20 Hz to 20 MHz, with outputs ungrounded or with either terminal grounded)	Voltage Normal mode (rms/p-p)	0.5 mV/3 mV	0.3 mV/3 mV	0.5 mV/3 mV	0.5 mV/3 mV	
	Fast mode (rms/p-p)	NA	1 mV/10 mV	1 mV/15 mV	2 mV/25 mV	
	Current (rms)	1 mA	2 mA	2 mA	2 mA	
DC measurement accuracy: via HP-IB or front panel meters with respect to actual output at 25° C ±5° C	Voltage	0.3% +	3 mV	3 mV	6 mV	12 mV
	Low current range					
	-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 I	0.2% +	0.25 mA	0.5 mA	0.25 mA	0.25 mA
	-20 mA to -rated I	0.2% +	0.85 mA	1.1 mA	0.85 mA	0.85 mA
Load regulation	Voltage/Current	2 mV/0.5 mA	2 mV/1 mA	4 mV/1 mA	5 mV/1 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 (50 µs in the fast mode) for the output voltage to recover to its previous level (within 0.1% of the voltage rating of the supply) 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)

	Voltage/Current	5 mV/0.5 mA	5 mV/1.25 mA	12.5 mV/0.5 mA	25 mV/0.25 mA
Average programming resolution					
Sink current*		1 A	5 A	2 A	1 A
Minimum current in constant current mode**		8 mA	20 mA	8 mA	4 mA
Price		\$1,395	\$1,795	\$1,795	\$1,795

* For the HP 6632B-6634B, the sink current tracks the programmed current to within 2 mA for programmed currents greater than 5 mA. Below 5 mA, the sink current remains at 5 mA. When programming in the HP 6630A Series language compatibility mode, the sink current for the HP 6632B, 6633B and 6634B tracks the programmed current with a negative 250 mA, 100mA and 50 mA respectively. The sink current does not track the programmed current for the HP 6612B. Sink current is fixed at 1A.

** When programming in the HP 6630A Series language compatibility mode.

dc Floating Voltage: Output terminals can be floated up to ±240 Vdc maximum from chassis ground (50 volts for HP 6612B)

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 negative output lead (positive output lead for the HP6612B) due to load current change.

Command-Processing Time: Average time required for the output voltage to begin to change following receipt of digital data is 4 ms for the power supplies connected directly to the HP-IB. (Display disabled.)

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 (2 ms in the fast mode).

HP-IB Interface Capabilities: IEEE-488.2, SCPI command set, and 6630A Series programming compatibility

Instrument Time: Average time to make a voltage or current measurement is 50 ms.

Input Power (full load): 6612B: 160 VA, 100 W; 6632B-6634B: 350 VA, 250 W

Regulatory Compliance: Listing pending to UL3111-1; certified to CSA22.2 No. 1010.1; conforms to IEC1010-1; complies with EMC directive 89/336/EEC (ISM Group 1, class B/)

Warranty Period: Three years

Size: HP 6612B: 212.8 mm W x 88.1 mm H x 425.8 mm D (8.4 in x 3.5 in x 16.8 in); HP 6632B-6634B: 425.5 mm W x 88.1 mm H x 364.4 mm D (16.8 in x 3.5 in x 14.3 in)

Weight: HP 6612B: 8.85 kg (19.5 lb) net; 11.1 kg (24.5 lb) shipping; HP 6632B-6634B: Net, 12.7 kg (28 lb) net; 15.0 kg (33 lb) shipping

Ordering Information

	Price
Standard: 104 to 127 Vac, 47 to 63 Hz,	
Opt 100 87 to 106 Vac, 47 to 63 Hz	\$0
Opt 220 191 to 233 Vac, 47 to 63 Hz	\$0
Opt 230 207 to 253 Vac, 47 to 63 Hz	\$0
Opt 020 Front-panel Binding Posts (HP 6632B-6634B only)	+\$87
Opt 760 Isolation and Reversal Relays (HP 6632B-6634B only)	+\$180
Opt ICM Rack-mount Kit, HP 6612B: HP p/n 5062-3972	+\$60
HP 6632B-6634B: HP p/n 5062-3974	+\$36
Opt 1CP Rack-mount Kit with Handles, HP p/n 5062-3975 (HP 6632B-6634B only)	+\$82
Opt AXS Rack-mount Kit for side-by-side mounting, Lock-link Kit HP p/n 5061-9464; Flange Kit HP p/n 5062-3974 (6612B only)	+\$79
Opt 910 Service Manual and Extra Operating Guide (Standard unit is shipped with operating guide and programming guide only.)	+\$36
Accessories	
HP p/n 1494-0060 Rack Slide Kit (HP 6632B-6634B only)	\$115

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