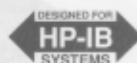


POWER SUPPLIES

Single-Output System, 100 W

HP 6632A, 6633A, 6634A

- Linear output regulation
- Low ripple and noise
- "One-Box" solution: includes V and I readback
- Fast up- and down-programming



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

		HP 6632A	HP 6633A	HP 6634A
Output ratings	Output voltage	0 to 20 V	0 to 50 V	0 to 100 V
	Output current	0 to 5 A	0 to 2 A	0 to 1 A
Programming accuracy at 25° C ±5° C	Voltage	0.05% +10 mV	0.06% +20 mV	0.05% +50 mV
	+ Current	0.15% +7 mA	0.15% +2 mA	0.15% +1 mA
Ripple and noise from 20 Hz to 20 MHz	Voltage (rms/peak-peak)	Normal mode	0.3 mV/3 mV	0.5 mV/3 mV
		Fast mode	1 mV/10 mV	1 mV/15 mV
	Current rms	2 mA	2 mA	2 mA
Readback accuracy (at 25° C ±5° C) (percent of reading plus fixed)	Voltage	0.07% +15 mV	0.07% +30 mV	0.06% +70 mV
	+ Current	0.18% +9 mA	0.17% +3 mA	0.15% +2 mA
	- Current	0.50% +15 mA	0.50% +7 mA	0.50% +6 mA
Load regulation	Voltage	2 mV	4 mV	5 mV
	Current	1 mA	1 mA	1 mA
Line regulation	Voltage	0.5 mV	1 mV	1 mV
	Current	0.5 mA	0.25 mA	0.25 mA

Transient Response Time: Less than 100 μs (50 μs in 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 rated current.

Supplemental Characteristics (Nonwarranted characteristics determined by design and useful in applying the products)

		HP 6632A	HP 6633A	HP 6634A
Programming resolution	Voltage	5 mV	12.5 mV	25 mV
	Current	1.25 mA	0.5 mA	0.25 mA
	OVP	100 mV	250 mV	500 mV
OVP accuracy		2.4%+240 mV	2.4%+600 mV	2.4%+1.2 V
Sink current		5 A	2 A	1 A
Minimum current in constant current mode		20 mA	8 mA	4 mA
Price		\$1,885	\$1,885	\$1,885

☎ For off-the-shelf shipment, call 800-452-4844.

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

Remote Sensing: Up to 2 volts can be dropped in each load lead. Add 5 mV to the voltage load regulation specification for each I-V change in the negative 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 data is 10 ms for power supplies connected directly to the HP-IB.

Output Programming Response Time: The rise and fall time (10/90% and 90/10%) of the output voltage is less than 15 ms (400 μs in fast mode). The output voltage change settles within 1 LSB (0.025% × rated voltage) of final value in less than 60 ms (2 ms in fast mode).

Input Power: 350 VA, 250 W at full load

HP-IB Interface Capabilities: SH1, AH1, T6, L4, SR1, RL1, PPI, DC1, DT0, E1 and C0

Regulatory Compliance: Listed to UL 1244; certified to CSA 556B; conforms to IEC 348; carries the CE mark.

RFI Suppression: Complies with CISPR-II Group I Class B

Size: 88.1 mm H × 425.5 mm W × 346 mm D (3.5 in × 16.75 in × 13.6 in)

Weight: Net, 10.5 kg (23 lb); shipping, 12.3 kg (27 lb)

Warranty Period: Three years

Key Features (for more information, see page 150)

- HP-IB programming of voltage and current
- Measured voltage and current readback over the HP-IB
- Programmable overvoltage and overcurrent protection
- Self-test occurs at power-on or from an HP-IB command
- Electronic calibration via HP-IB
- Option 760 for built-in relays and DFI/RI
- Fast or normal mode operation selected via rear-panel switch
- Option 020 provides front panel binding posts

Key Literature

1995/96 Power Products Catalog, p/n 5963-3906.

Ordering Information

Option Descriptions	Price
Standard: 104 to 127 Vac, 48 to 63 Hz, 3.3 A	\$0
Opt 020 Front Binding Posts	\$87
Opt 760 Isolation and Reversal Relays; includes discrete fault indicator and remote inhibit	\$430
Opt 100 87 to 106 Vac, 48 to 63 Hz, 2.9 A (Japan only)	\$0
Opt 220 191 to 233 Vac, 48 to 63 Hz, 1.7 A	\$0
Opt 240 209 to 250 Vac, 48 to 63 Hz, 1.6 A	\$0
Opt 908 Rack Mount Kit (HP p/n 5061-9674)	\$36
Opt 909 Rack Mount Kit with handles (HP p/n 5061-9675)	\$82
Opt 910 Extra Operating Manual (HP p/n 5957-6360) and Service Manual (HP p/n 5957-6365). Standard unit is shipped with operating manual only.	\$36
Accessory rack slide kit (HP p/n 1494-0060)	\$100