

16 SYSTEM dc POWER SUPPLIES

Multiple-Output System - 40 W and 80 W

- 2, 3, or 4 independent isolated outputs
- Dual-range linear outputs
- Low ripple and noise
- Fast up- and down-programming



SPECIFICATIONS

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

		40-watt output	40-watt output	80-watt output	80-watt output
Output Power	Low-range volts, amps	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
	High range volts, amps	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 HP model (total number of outputs)	HP 6621A (2)	—	—	2	—
	HP 6622A (2)	—	—	—	2
	HP 6623A (3)	1	1	1	—
	HP 6624A (4)	2	2	—	—
	HP 6627A (4)	—	4	—	—
Programming accuracy (at 25° C ±5° C)	Voltage	19 mV + 0.06%	50 mV + 0.06%	19 mV + 0.06%	50 mV + 0.06%
	Current	50 mA + 0.16%	20 mA + 0.16%	100 mA + 0.16%	40 mA + 0.16%
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
	peak-to-peak	3 mV	3 mV	3 mV	3 mV
	Constant current rms	1 mA	1 mA	1 mA	1 mA
Load regulation	Voltage	2 mV	2 mV	2 mV	2 mV
	Current	1 mA	0.5 mA	2 mA	1 mA
Load cross regulation	Voltage	1 mV	2.5 mV	1 mV	2.5 mV
	Current	1 mA	0.5 mA	2 mA	1 mA
Line regulation	Voltage	0.01% + 1 mV	0.01% + 1 mV	0.01% + 1 mV	0.01% + 1 mV
	Current	0.06% + 1 mA	0.06% + 1 mA	0.06% + 1 mA	0.06% + 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-watt output	40-watt output	80-watt output	80-watt output
Average programming resolution	Voltage	6 mV	15 mV	6 mV 3.2 mV (high)	15 mV
	Current	25 mA	10 mA	50 mA 131 µA (high)	20 mA
	OVP	100 mV	250 mV	100 mV	250 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

dc Floating Voltage: All outputs 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 is subtracted from the voltage available for the load.

Command Processing Time: 7 ms typical with front-panel display disabled

Down 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.

HP-IB Interface Capabilities: SH1, AH1, T6, L4, SR1, RL1, PP1, DC1, DT0.

Regulatory Compliance: Listed to UL1244; certified to CSA556B; conforms to IEC348; carries the CE mark

RFI Suppression: Complies with CISPR-11 Group1 Class B

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) See page 44 for more details

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

Warranty Period: Three years

Ordering Information

STANDARD: 104 to 127 Vac, 47 to 66 Hz, 5.4 A

Opt 100 87 to 106 Vac, 47 to 66 Hz Input, 6.3 A (Japan only)

Opt 220 191 to 233 Vac, 47 to 66 Hz, 3.0 A

Opt 240 209 to 250 Vac, 47 to 66 Hz, 3.0 A

Opt 750 Relay Control and DFI/RI

Opt 908 Rack-mount Kit (HP p/n 5062-3977)

Opt 909 Rack-mount Kit w/Handles

(HP p/n 5062-3983)

Opt 910 Service Manual and extra Operating Guide

ACCESSORIES

HP p/n 1494-0059
Rack Slide Kit