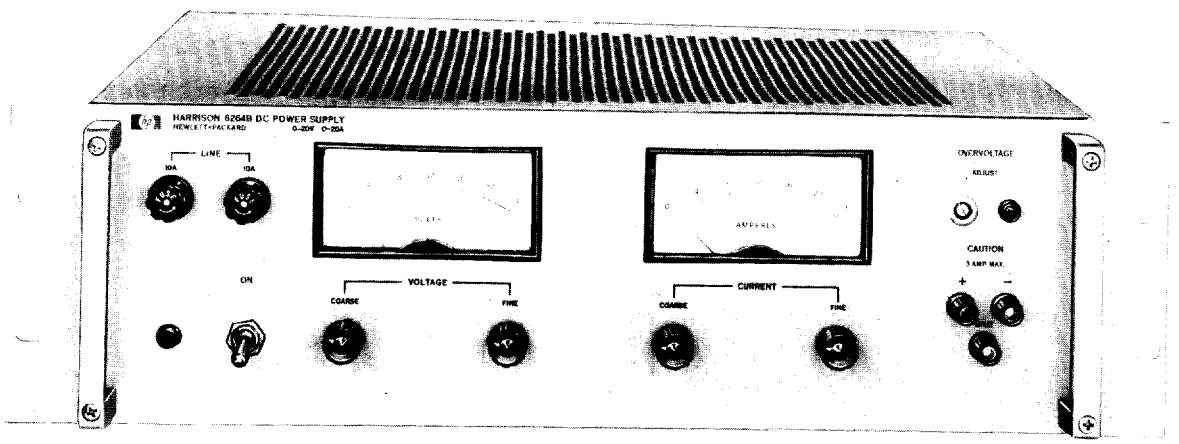
POWER SUPPLIES

LOW VOLTAGE RACK SUPPLIES

LVR Series

Models 6256B - 6274A



Model 6264B

NOTE: Chief difference in "A" model appearance is absence of crowbar adjust; crowbars are optional on "A" models.

Model		6256B	6259B	6260A	6263B	6264B
DC output		0–10 volts @ 0–20 amps	0–10 volts @ 0–50 amps	0–10 volts @ 0–100 amps	0–20 volts @ 0–10 amps	0–20 volts @ 0–20 amps
AC input		115 ±10% V ac 57–63 Hz 5 A, 375 W	115 ±10% V ac 57–63 Hz	230 ±10% V ac 57–63 Hz 11 A, 1700 W	115 V ac ±10% 57–63 Hz, 4 A, 350 W	115 V ac ±10% 57–63 Hz, 8 A, 600 W
Load regulation: the constant voltage load current change equal to the current rating of the supply. The constant current load regulation specification is given for the load voltage change equal to the voltage rating of the supply	CV	0.01% plus 200 μV	0.01% +200 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV
	CC	0.02% plus 500 μA	0.02% +1 mA	0.03% plus 2 mA	0.02% plus 500 μA	0.02% plus 500 μA
Line regulation: for a change in line voltage from 100 to 130 or 200 to 260 at any output voltage and current within rating.	CV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV
	CC	0.02% plus 500 μA	0.02% plus 1 mA	0.03% plus 2 mA	0.02% plus 500 μA	0.02% plus 500 μA
Ripple and noise: at any line voltage and under any load condition within rating.	CV	200 μV rms/10 mV p-p	500 μV rms/10 mV p-p	1 mV rms/50 V p-p	200 μV rms/10 mV p-p	200 μV rms/10 mV p-p
	CC	5 μA rms	25 μA rms	50 mA rms	3 mA rms	5 mA rms
Temperature coefficient: output change per degree centigrade change in ambient following 30 minutes warmup	CV	0.01% pius 200 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV
	CC	0.01% plus 2 mA	0.01% plus 4 mA	0.01% plus 8 mA	0.01% plus 2 mA	0.01% plus 2 mA
Remote programming: all programming terminals are located on rear barrier strips	CV	200 ohms/volts	200 ohms/volts	200 ohms/volt	200 ohms/volt	200 ohms/volt
	CC	10 ohms/amp	4 ohms/amp	2 ohms/amp	100 ohms/amp	10 ohms/amp
Meters accuracy: 2%		0–12 V and 0–24 A	0–12 V and 0–60 A	0–12 V and 0–120 A	0–24 V and 0–12 A	0–24 V and 0–25 A
Input power connections		3-wire, 5-foot cord	Barrier strip	Barrier strip	3-wire, 5-foot cord	3-wire, 5-foot cord
Size: height x depth x width	inches	5¼ H x 17½ D x 19 W	7 H x 17½ D x 19 W	7 H x 17½ D x 19 W	3½ H x 17½ D x 19 W	5¼ H x 17½ D x 19 W
	centimeters	14 H x 44,4 D x 48,3 W	17,8 H x 44,4 D x 48,3 W	17,8 H x 44,4 D x 48,3 W	8,9 H x 44,4 D x 48,3 W	14 H x 44,4 D x 48,3 W
Weight: (lbs) (net/shipping)		42 (19,1 kg)/57 (25,9 kg)	—	90 (44,8 kg)/115 (52,2 kg)	34 (15,4 kg)/48 (12,7 kg)	42 (19,1 kg)/51 (25,9 kg)
Price		$450	$650	$775	$435	$525
Options: refer to page 561 for descriptions		05–$10, 07–$25, 08–$25, 09–$45, 10–$50, 13–$60, 14–$60, 27–$10, 28–$10		05–$90, 06–$175, 10–$125, 13–$35, 14–$35, 16–$50, 27–$15, 55–$20	05–$10, 07–$25, 08–$25, 09–$45, 10–$50, 13–$60, 14–$60, 27–$10, 28–$10	

CV = constant voltage CC = constant current

Advantages

Overvoltage Protection Crowbar*

Low peak-to-peak ripple

Continuously variable output voltage and current—no range switching

Auto-series, auto-parallel and auto-tracking operation

Remote programming—voltage and current can be controlled by external resistance or control voltage

Remote error sensing

Low output impedance

Constant voltage constant current operation with automatic crossover

Fully rated for any overload condition including continuous short circuit operation

Front panel voltmeter and ammeter

RFI conformance to MIL-I-6181D

*Internal and standard on "B" models, external and optional on "A" models.

Specifications

Radio frequency interference: all models are free from conducted and radiated RFI to the extent that they meet all the requirements of MIL-I-6181D.

Maximum operating temperature: 0 to 55°C. Storage: −20 to +71°C.

Internal impedance as a constant voltage source: 0.1 mΩ in series with 1 μH.

Transient recovery time: less than 50 microseconds is required for output voltage recovery (in constant voltage operation) to within 10 millivolts of the nominal output voltage following a 5 amp change in output current.

Output terminals: an output terminal strip is located on the rear of the chassis. All power supply terminals are isolated from the chassis and either the positive or negative terminal may be connected to the chassis through a separate ground terminal located adjacent to the output terminals. All models include front panel output terminals. They are banana jack type and limited to 3 amps maximum current output.

Finish: light gray front panel with dark gray case.

6265B	6266B	6267B	6268A	6269A	6271B	6274A
0–40 volts @ 0–3 amps	0–40 volts @ 0–5 amps	0–40 volts @ 0–10 amps	0–40 volts @ 0–30 amps	0–40 volts @ 0–50 amps	0–60 volts @ 0–3 amps	0–60 volts @ 0–15 amps
115 V ac, ±10% 57–63 Hz, 3 A, 180 W	115 V ac, ±10% 57–63 Hz, 4 A, 325 W	115 V ac, ±10% 57–63 Hz, 8 A, 550 W	230 ±10% V ac 57–63 Hz, 11 A, 1600 W	230 ±10% V ac 57–63 Hz, 18 A, 2600 W	115 V ac ±10% 57–63 Hz, 4 A, 300 W	115 V ac, ±10% 57–63 Hz, 16 A, 1700 W
0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV
0.02% plus 500 μA	0.02% plus 500 μA	0.02% plus 500 μA	0.02% plus 3 mA	0.02% plus 3 mA	0.02% plus 500 μA	0.02% plus 2 mA
0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV
0.02% plus 500 μA	0.02% plus 500 μA	0.02% plus 500 μV	0.02% plus 3 mA	0.02% plus 3 mA	0.02% plus 500 μA	0.02% plus 2 mA
200 μV rms/10 mV p-p	200 μV rms/10 mV p-p	200 μV rms/10 mV p-p	1 μV rms	1 μV rms/20 mV p-p	200 μV rms/10 mV p-p	500 μV rms
3 mA rms	3 mA rms	3 mA rms	20 mA rms	30 mA rms	3 mA rms	10 mA rms
0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 500 μV	0.01% plus 200 μV	0.01% plus 200 μV	0.01% plus 200 μV
0.01% plus 1 mA	0.01% plus 1 mA	0.01% plus 1 mA	0.01% plus 2 mA	0.01% plus 4 mA	0.01% plus 1 mA	0.01% plus 2 mA
200 ohms/volt	200 ohms/volt	200 ohms/volt	200 ohms/volt	200 ohms/volt	300 ohms/volt	300 ohms/volt
300 ohms/amp	200 ohms/amp	100 ohms/amp	6 ohms/amp	4 ohms/amp	300 ohms/amp	62 ohms/amp
0–50 V and 0–4A	0–50 V and 0–6 A	0–50 V and 0–12 A	0–50 V and 0–40 A	0–50 V and 0–60 A	0–70 V and 0–4 A	0–70 V and 0–18 A
3-wire, 5-foot cord	3-wire, 5-foot cord	3-wire, 5-foot cord	Barrier strip	Barrier strip	3-wire, 5-foot cord	Barrier strip
3½ H x 17½ D x 19 W	3½ H x 17½ D x 19 W	5¼ H x 17½ D x 19 W	7 H x 16¾ D x 19 W	7 H x 17½ D x 19 W	3½ H x 17½ D x 19 W	5¼ H x 17½ D x 19 W
8,9 H x 44,4 D x 48,3 W	8,9 H x 44,4 D x 48,3 W	14 H x 44,4 D x 48,3 W	17,8 H x 42,7 D x 48,3 W	17,8 H x 44,4 D x 48,3 W	8,9 H x 44,4 D x 48,3 W	14 H x 44,4 D x 48,3 W
34 (15,4 kg)/48 (21,7 kg)	34 (15,4 kg)/48 (21,7 kg)	42 (19,1 kg)/57 (25,9 kg)	93 (42,2 kg)/120 (54,5 kg)	93 (42,4 kg)/120 (54,5 kg)	34 (15,4 kg)/48 (21,7 kg)	75 (34 kg)/95 (43,1 kg)
$350	$435	$525	$695	$875	$435	$695
05–$10, 07–$25, 08–$25, 09–$45, 10–$50,			05–$10, 06–$175, 10–$125, 13–$35,		05–$10, 07–$25, 09–$45,	05–$10, 06–$175, 10–$125,
13–$60, 14–$60, 27–$10, 28–$10			14–$35, 27–$15		10–$50, 13–$60, 14–$60, 27–$10, 28–$10	13–$35, 14–$35, 17–$50, 18–$50