



HP 6253A, 6255A

HP 6227B, 6228B

Each side of the dual supply can be operated as a constant voltage or constant current source, and each has its own crowbar for overvoltage protection. In the tracking mode, an overvoltage condition in either supply trips both crowbars. The power supply outputs are isolated up to 300 V from output to chassis or output to output.

Specifications – General

Load effect transient recovery: Time, 50 μ s; level, 15 mV
Meter accuracy: 3% of full scale
Power: Standard input voltage is 115 Vac \pm 10%. Order Option 028 for 230 Vac \pm 10% operation. Input power frequency, maximum input current, maximum power consumption are:
 HP 6227B, 6228B—48 to 63 Hz, 2.7 A, 260 W;
 HP 6253A—48 to 440 Hz, 2.6 A, 235 W; HP 6255A—48 to 440 Hz, 2.6 A, 235 W; HP 6281A—48 to 440 Hz, 1.3 A, 118 W; HP 6282A—57 to 63 Hz, 3.5 A, 200 W; HP 6284A—48 to 440 Hz, 1.5 A, 128 W; HP 6286A—57 to 63 Hz, 5.5 A, 320 W; HP 6289A—48 to 440 Hz, 1.3 A, 110 W; HP 6291A—57 to 63 Hz, 5.5 A, 280 W; HP 6294A—48 to 440 Hz, 1.3 A, 114 W; HP 6296A—57 to 63 Hz, 4.5 A, 250 W; HP 6299A—48 to 440 Hz, 1.5 A, 135 W.
Size: 6227B, 6228B: 155 mm H \times 197 mm W \times 309.55 mm D (6 $\frac{1}{2}$ in \times 7 $\frac{3}{4}$ in \times 12 $\frac{1}{4}$ in)
 HP 6253A, 6255A: 87 mm H \times 483 mm W \times 403 mm D (3 $\frac{3}{8}$ in \times 19 in \times 15 $\frac{1}{2}$ in)
 HP 6281A, 6284A, 6289A, 6294A, 6299A: 87 mm H \times 209 mm W \times 398 mm D (3 $\frac{3}{8}$ in \times 8 $\frac{1}{2}$ in \times 15 $\frac{1}{2}$ in)
 HP 6282A, 6286A, 6291A, 6296A: 131 mm H \times 210 mm W \times 435 mm D ($\frac{1}{2}$ in \times 8 $\frac{1}{4}$ in \times 17 $\frac{1}{2}$ in)

Option Descriptions

See the Options listing in the table below for availability.
Opt 005 50-Hz ac input: Optimizes power supplies that require adjustment/modification for 50-Hz operation. \$0
Opt 010 Chassis slides. Enable convenient access to rack-mounted power supply for maintenance. +\$90

- Opt 011** Internal overvoltage protection crowbar. Protects sensitive loads against power supply failure or operator error. Monitors the output voltage and places a virtual short circuit (conducting SCR) across load after preset trip voltage is exceeded. +\$132
 HP 6281A, 6284A, 6289A, 6294A, 6299A
- Opt 028** 230 Vac \pm 10%, single-phase input. Factory modification reconnects the multitap input power transformer for 230 V operation. +\$215
 HP 6253A, 6255A, 6282A, 6286A, 6291A, 6296A
- Opt 040** Interfacing for Multiprogrammer operation. Prepares standard HP power supplies for resistance programming by the HP 6942A, 6944A, or 6954A.
- Single-output models** +\$80
- Dual-output models** +\$158
- Opt 910** One additional operating and service manual shipped with the power supply
- HP 6227B +\$10
- HP 6253A, 6255A, 6228B +\$7.88
- HP 6281A, 6282A, 6284A, 6286A, 6289A, 6291A, 6294A, 6296A, 6299A +\$5.35
- Accessories**
- HP 14513A** 3.5 in high rack kit for one HP 6281A, 6284A, 6289A, 6294A, 6299A \$100
- HP 14523A** 3.5 in high rack kit for two above supplies \$60
- HP 14515A** 5.25 in high rack kit for one HP 6282A, 6286A, 6291A, 6296A \$120
- HP 14525A** 5.25 in high rack kit for two above supplies \$60
- HP 5060-8760** Blank filler panel for HP 6227B, 6228B \$44
- HP 5060-8762** Adapter frame for rack mounting one or two HP 6227B, 6228B \$150

Specifications (continued)

REMOTE CONTROL FEATURES								GENERAL					
Resistance Coefficient		Voltage Coefficient		Speed, UP*		Speed, DOWN*		Overvoltage		Weight		Options	Price
Voltage	Current	Voltage	Current	NL	FL	NL	FL	Range	Margin	Net	Shipping		
200 Ω /V \pm 1%	200 Ω /A \pm 10%	1 V/V \pm 1%	0.2 V/A \pm 10%	1 ms	2 ms	10 ms	6 ms	2.5 to 10 V	4% \pm 2 V	6.4 kg/14 lb	7.2 kg/16 lb	11, 28, 40	\$1,210
200 Ω /V \pm 1%	100 Ω /A \pm 10%	1 V/V \pm 1%	100 mV/A \pm 10%	70 ms	200 ms	9 s	40 ms	1 to 13 V	7% + 1 V	11.3 kg/25 lb	13.6 kg/30 lb	5, 11, 28, 40	\$1,520
200 Ω /V \pm 1%	500 Ω /A \pm 10%	1 V/V \pm 1%	0.33 V/A \pm 10%	30 ms	80 ms	400 ms	100 ms	2.5 to 23 V	4% + 2 V	12.7 kg/28 lb	17.7 kg/39 lb	10, 11, 28, 40	\$2,100
200 Ω /V \pm 1%	500 Ω /A \pm 10%	1 V/V \pm 1%	0.33 V/A \pm 10%	30 ms	80 ms	400 ms	100 ms	2.5 to 23 V	4% + 2 V	6.4 kg/14 lb	7.2 kg/16 lb	11, 28, 40	\$1,100
200 Ω /V \pm 1%	100 Ω /A \pm 10%	1 V/V \pm 1%	100 mV/A \pm 10%	150 ms	150 ms	9 s	70 ms	2 to 22 V	7% + 1 V	10.8 kg/26 lb	13.1 kg/29 lb	5, 11, 28	\$1,590
200 Ω /V \pm 1%	500 Ω /A \pm 10%	1 V/V \pm 1%	.5 V/A \pm 10%	40 ms	200 ms	400 ms	75 ms	5 to 28 V	7% + 1.5 V	11 ka/24 lb	12.9 kg/28 lb	40	\$2,470
200 Ω /V \pm 1%	500 Ω /A \pm 10%	1 V/V \pm 1%	0.66 V/A \pm 10%	15 ms	45 ms	200 ms	40 ms	2.5 to 44 V	4% + 2 V	12.7 kg/28 lb	17.7 kg/39 lb	10, 11, 28, 40	\$2,100
200 Ω /V \pm 1%	500 Ω /A \pm 10%	1 V/V \pm 1%	0.66 V/A \pm 10%	15 ms	45 ms	200 ms	40 ms	2.5 to 44 V	4% + 2 V	6.4 kg/14 lb	7.2 kg/16 lb	11, 28, 40	\$1,100
200 Ω /V \pm 1%	200 Ω /A \pm 10%	1 V/V \pm 1%	200 mV/A \pm 10%	275 ms	275 ms	13 s	275 ms	6 to 43 V	7% + 1 V	11.3 kg/25 lb	12.7 kg/28 lb	5, 11, 28	\$1,590
200 Ω /V \pm 1%	1 k Ω /A \pm 10%	1 V/V \pm 1%	1 V/A \pm 10%	50 ms	350 ms	1 s	50 ms	5 to 55 V	7% + 1.5 V	11 ka/24 lb	12.9 kg/28 lb	40	\$2,470
300 Ω /V \pm 1%	1 k Ω /A \pm 10%	1 V/V \pm 1%	1 V/A \pm 10%	25 ms	80 ms	2 s	175 ms	5 to 65 V	4% + 2 V	5.9 kg/13 lb	6.8 kg/15 lb	11, 28, 40	\$1,160
300 Ω /V \pm 1%	500 Ω /A \pm 10%	1 V/V \pm 1%	333 mV/A \pm 10%	600 ms	600 ms	5 s	200 ms	9 to 66 V	7% + 1 V	11.3 kg/25 lb	12.7 kg/28 lb	5, 11, 28	\$1,590
300 Ω /V \pm 1%	1 k Ω /A \pm 10%	1 V/V \pm 1%	1.3 V/A \pm 10%	25 ms	200 ms	1.5 s	200 ms	20 to 106 V	4% + 2 V	5.9 kg/13 lb	6.8 kg/15 lb	11, 28, 40	\$1,160

*UP = increasing output voltage. NL = No output load current. FL = Full rated output load current.