DESCRIPTION

Analog Devices Power Supplies are designed to provide OEMs and circuit designers with a broad line of high reliability, regulated and short circuit protected power supplies at low overall cost. These modules are available with 5 volt to 24 volt output (single and dual), and current ratings from 25mA to 1 amp. Most Analog Devices Power Supplies are available from stock in both large and small quantities. Substantial discounts apply on quantity orders.

ADVANTAGES

Packaged circuit modules have found wide acceptance. Engineers have discovered the convenience and economy of plug-in building blocks ... op amps, logic cards, miniature A/D and D/A converters are now available in wide varieties. Now a complete line of modular power supplies is available from Analog Devices. Most of these units are packaged in the popular encapsulated case. They are shipped ready to use, at prices below the internal manufacturing cost of most OEM users. Further savings and reduced lead time are achieved by eliminating engineering start up, documentation costs, and manufacturing delays. Designed by experts in op amp and digital logic technology, these units offer features that you would expect to find only in considerably more expensive supplies.

ENCAPSULATED MODULES (900 SERVES)

This line of modular power supplies covers most popular applications, except for high current loads. These supplies all feature line and load regulation and are short circuit protected. Mating sockets are available, or the unit may be mounted on and soldered directly to a printed circuit card. Voltage ranges include 5VDC to ±24VDC Current ranges extend from 25mA up to 1 amp.

METAL CASED MODULES (900 SERIES)

The ± 15 VDC, 300mA, 500mA and 1 amp cased power supplies are designed with the system designer's needs in mind. These units provide the power needed to run large Modularized, Transistorized and Integrated Circuit systems. The 300 and 500mA supplies come in 3.5 inch cube cases with an 11 pin connector (supplied). The ± 15 volt, 1 amp unit is mounted in a finned case and has barrier terminal strip connectors. All of these units provide for remote sensing.

EXTRA-HIGH ACCURACY SUPPLIES (MPD SERIES)

Analog Devices "MPD" line of Power Supplies are intended for applications where the ultimate in performance is required. They feature excellent regulation and low temperature coefficients. Typical applications include providing stable references for computing, instrument, and data reduction circuitry. All MPD supplies are sealed in anodized aluminum enclosures for maximum ruggedness and minimum RFI. Being essentially DC to DC converters, these units feature low "see through" capacitance (typically 20pF) and are desirable for powering floated circuits and use in systems having considerable ground noise.

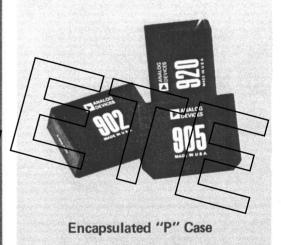
OPTIONS

Most supplies are available with 205–240VAC, 50–400Hz input at no additional charge. Specify option "E" when ordering. Models 904 and 909 are available with a transformer shield which reduces input to output see-through capacity to 10pF max. Specify option "I" when ordering and add \$8 each to unit prices. Model 906 (5VDC/250mA) available with 6.0VDC overvoltage protection at \$8 each additional. All other 5VDC logic supplies (Models 903 and 905) include overvoltage protection at no additional charge.

900 SERIES, MPD SERIES
MODULAR POWER SUPPLIES
FOR OP AMPS & LOGIC CIRCUITRY

FEATURES

Short Circuit Protected
Line & Load Regulated
Small Size
5VDC to ±24VDC
25mA to 1000mA
Temperature Compensated
Low Cost, from \$23 (1-9)





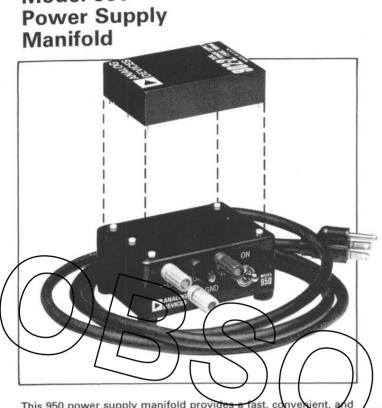
Cube "C" and Finned Case



ROUTE ONE P. O. BOX 280 N TEL: 617/329-4700

INDUSTRIAL PARK NORWOOD, MASS. 02062 00 TWX: 710/394-6577

REFERENCE GUIDE



Model 950

This 950 power supply manifold provides a last, convenient, and inexpensive bench supply for breadboarding, testing or general laboratory use. Five ports are supplied which enable the 900 series P-1 cased modules to be directly plugged-in to this manifold. Three output terminals provide easy user access to selected dual DC output or single DC output voltage source. Cost is just \$82.00.

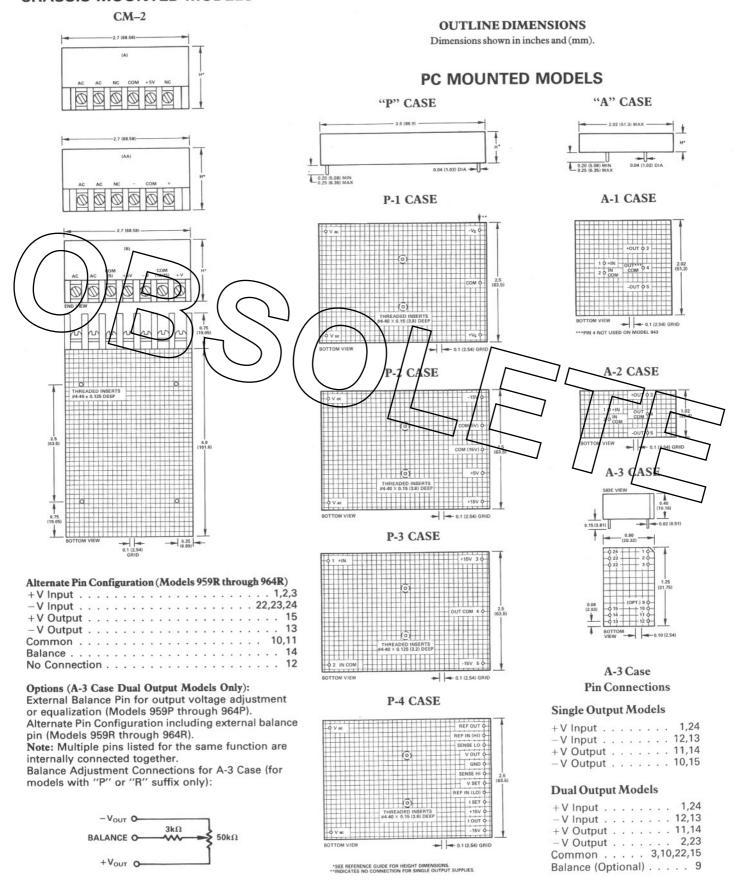
902	± 15V @ 100mA	915	± 15V @ 25mA
902-2	± 15V @ 100mA	920	± 15V @ 200mA
903	±5V @ 500mA	921	± 12V @ 240mA
904	± 15V @ 50mA	922	+5V @ 2000mA
905	+5V@1000mA	925	± 15V @ 350mA
906	+5V @ 250mA	928	+5V@3000mA

Model	Input	Output V/mA	Height (Inches)	Case	Weight (Grams)	Socket No.
902	AC	$\pm 15/100$	1.25	P-1	530	AC1013
902-2	AC	± 15/100	0.875	P-1	330	AC1013
903	AC	5/500	1.25	P-1	530	AC1013
904	AC	± 15/50	0.875	P-1	330	AC1013
905	AC	5/1000	1.25	P-1	530	AC1013
906	AC	5/250	0.875	P-1	330	AC1013
915	AC	± 15/25	0.875	P-1	330	AC1013
920	AC	± 15/200	1.25	P-1	530	AC1013
921	AC	± 12/240	1.25	P-1	530	AC1013
922	AC	5/2000	1.62	P-1	750	AC1013
923	AC	± 15/100;	1.25	P-2	560	AC1581
		+ 5/500				
925	AC	$\pm 15/350$	1.62	P-1	750	AC1013
926	AC	\pm 15/150; + 5/300	1.25	P-2	475	AC1581
927	AC	± 15/150; + 5/1000	1.62	P-2	645	AC1581
928	AC	+5/3000	1.25	P-1	325	AC1013
940	5V	$\pm 15/150$	0.38	A-1	85	AC1051
941	5V	$\pm 12/150$	0.38	A-1	85	AC1051
943	5V	+5/1000	0.38	A-1	85	AC1051
945	28V	$\pm 15/150$	0.38	A-1	85	AC1051
949	5V	± 15/60	0.375	A-2	45	AC1051
951	5V	± 15/410	0.88	P-3	220	AC1013
952	AC	± 15/100	1.44	CM-2AA	590	N/A
953	12V	±/15/150	0.38	A-1	85	AC1051
955	AC	+5/1000	1.44	CM-2AA		N/A
957	5V	+ 5/100	0.40	A-3	12	HSA-1
958	5V	+5/100	0.40	A-3	12_	HSA-1
959	5V	± 12/40	0.40	A-3	12	HSA-1
960	5V	± 12/40	0.40	A-B	12	HSA-1
961	5V	± 15/33	0.40	A-3	12	HSA-1
962	5V	± 15/33	0.40	A-3	12	HSA-1
963	12V	$\pm 15/33$	0.40	A-3	12	HSA-1
964	12V	$\pm 15/33$	0.40	A-3	12	HSA-1
965	5V	$\pm 15/190$	0.40	A-1	54	AC1051
966	12V	$\pm 15/190$	0.40	A-1	54	AC1051
967	24V	$\pm 15/190$	0.40	A-1	54	AC1051
968	28V	$\pm 15/190$	0.40	A-1	54	AC1051
970	AC	$\pm 15/200$	1.44	CM-2AA	590	N/A
972	AC	$\pm 15/150;$	1.45	CM-2B	598	N/A
		+ 5/300				
973	AC	$\pm 15/350$	2.00	CM-2AA	880	N/A
974	AC	$\pm 15/150;$	2.00	CM-2B	840	N/A
		+5/1000	2.00	CNA DA A	000	NI/A
975	AC	± 15/500	2.00	CM-2AA		N/A
976	AC	+ 5/3000	1.45	CM-2A	465	N/A
2B35	AC	\pm 15/65; + 1 to + 15/125	1.25	P-4	550	AC1212

Socket	
Pricing	1-4
AC 1013	\$15.00
AC 1051	\$15.00
AC 1212	\$11.00
AC 1581	\$14.00
HSA-1	\$ 2.50

MECHANICAL OUTLINES

CHASSIS MOUNTED MODELS





900 SERIES MODULAR POWER SUPPLIES 5V to

SPECIFICATIONS (Typical @ +25°C and 115VAC unless otherwise noted)

	±12	VOLTS				±1	5 VOLTS	3			
MODEL	907	909	908	915	904	902	916	917	918	920	931
E out (V)	±12	±12	±12	±15	±15	±15	±15	±15	±15	±15	±18
l out (mA) (min full load)	±25	±50	±100.	±25	±50	±100	±300	±500	±1000	±200	±25
PRICE (1-9)	\$23.	\$49.	\$59.	\$23.	\$39.	\$49.	\$98.	\$114.	\$148.	\$69.	\$23.
PRICE (10-24)	\$22.	\$47.	\$56.	\$22.	\$38.	\$47.	\$93.	\$108.	\$141.	\$62.	\$22.
CASE	Р	Р	Р	Р	Р	P	С	С	Fin	P ⁵	Р
LINE REG. (MAX)	0.2%	0.01%	0.01%	0.2%	0.1%	0.05%	0.05%	0.05%	0.05%	0.05%	0.2%
(105/125 VAC) LOAD REG. (MAX)	0.2%	0.05%	0.05%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.2%
(0-100%) TEMP COEF (C)	0.02%	9.015%	(0.015%	0.02%	0.015%	0.015%	0.02%	0.02%	0.02%	0.015%	0.02%
WARNUP DRUT	30mV)	5mV	15mV	30mV_	37m X*	45mV*	25mV*	25mV*	25mV*	45mV*	30mV
OPERATING TEMP RANGE (°C)	- 25 to +71	12 to	-25 to	25 to +11	0 td +7]1 ¹	0 to +7	-25 to +71	-25 to	-25 to +71	0 to +71 ²	-25 to +71
STORAGE TEMP RANGE (°C)	-25 to +85	-25 to +85	25 to +85	25 to	-25 to	-25 to +85	-25 to +85	-25 to +85	-25 to +85	25 to +85	-25 to +85
OPTIONS	<u>-</u>	_	-	E,I,H	E,I,H L	E,I,H	71/0/	I,D	1,0	E, H / /	-
RIPPLE & NOISE rms (MAX)	1mV	1mV	1mV	1mV	0.5mV	0.5mV	1mV	1mV	1mV	0.5mV	TmV_
INPUT ISOLATION	50ΜΩ	50ΜΩ	50ΜΩ	50ΜΩ	500ΜΩ	50ΜΩ	50ΜΩ	50MS2	50MΩ	50NΩ	50Ms2
OUTPUT IMPEDANCE (@ 90% IL ±10% IL)	0.2Ω @ 10kHz	0.2Ω @ 10kHz	0.2Ω @ 10kHz	0.2Ω@ 10kHz	0.2Ω@ 10kHz	0.2Ω@ 10kHz	0.25 @ 10kHz				
OUTPUT VOLTAGE ERROR (MAX)	±1%	±1%	±1%	±1%	+200mV ⁶ -0mV	+300mV ⁶ -0mV	±1%	±1%	±1%	+300mV ⁶ -0mV	±1%
WEIGHT	12 oz.	1 lb.	1 lb.	2 lbs.	5 lbs.	18 oz.	12 oz.				
MATING SOCKET	AC1013	AC1013	AC1013	see dwa.	see dwg.	see dwa.	see dwa.	see dwg.	see dwa	AC1013	AC1013

Specifications subject to change without notice

OPTIONS AVAILABLE

- "E" Option— 205-240VAC, 50-400Hz input. No additional charge.
- "I" Option— Units have transformer interwinding shield with separate ground lead. Maximum input to output see-through capacitance with this option is 10pF. \$8 additional per unit.
- "D" Option— Overvoltage protection available at \$8/unit additional charge. Nominally at 1 volt above rated output.
- "H" Option— 220-260VAC, 50-400Hz input. No additional charge.

GENERAL INFORMATION

- All supplies have 105-125VAC, 50-400Hz input unless Option "E" is ordered.
- 2. All Cube "C" case modules shipped with mating 11 pin Amphenol connector at no additional charge.

- 3. MPD series supplies housed in Aluminum cases for maximum RFI suppression.
- All supplies are short circuit protected except MPD series supplies are not short protected between different outputs. MPD5-150A short protected only on 5VDC output.

FOOTNOTES

- *Indicates "maximum" specification.
- ¹ Derate 5mA/°C above +55°C.
- ² Derate 12mA/°C above +50°C
- ³ Derate 7mA/°C above +55°C.
- ⁴Overvoltage protection at 6.5VDC included.
- ⁵ Aluminum "P" case. Tolerance is increased to 0.05" on the 2.50" and 3.50" dimension.
- ⁶ Outputs track within 1% (3/4% for Model 904).

24V FOR ALL OP AMP AND LOGIC REQUIREMENTS

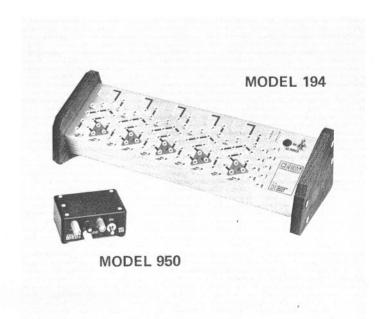
B VOLT	S		±24 VC	LTS		VOLTS		MPD SERI	ES POWER S	UPPLIES (Hig	h Stability)
	935	932	933	934	906	903	905	MPD 15/100A	MPD 15/300A	MPD 5-150A	MPD 5/750A
	±18	±18	±24	±24	5	5	5	±15	±15	5VDC 150VDC	5
	±50	±100	±50	±100	250	500	1000	±100	±300	600mA(5V) 5mA(150V)	750
	\$55.	S65.	\$55.	\$65.	\$39.	\$49.	\$69.	\$149.	\$275.	\$149.	\$149.
	\$52.	\$62.	\$52.	\$62.	\$38.	\$47.	\$66.	\$141.	\$260.	\$141.	\$141.
have repersed on the control	P	Р	Р	Р	Р	Р	P ⁵	see dwg.	see dwg.	see dwg.	see dwg.
	9.01%	0.01%	0.01%	0.01%	0.05%	0.15%	0.05%	0.005%	0.005%	0.005%	0.005%
	0.05%	0 05%	0.05%	0.05%	0.1%	0.3%	0.1%	0.02%	0.02%	12.5mV	12.5mV
	0.015%	9.019%	0.015%	0.015%	0.02%	0.02%	0.02%	0.015%*	0.015%*	0.05%*	0.05%*
	Nemv	15mV	15mV	24mV	25-1	15mV	40mV	<u>-</u> -	-	15	_
	-25 to +71	-25 td +71	-25 d	-25 to +71	-25 to	0 to +71 ²	25 to	-55 to +71	-55 to	-55 to +71	−55 to +71
	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	-25 to +85	25 to +\$5	-55 to +125	-55 to [+125	-55 to	-55 to +125
	_	_	_	_	_	E ⁴	E	- / /		<i> - ~ </i>	
	1mV	1mV	1mV	1mV	1mV	1mV	1mV	0.5mVp-p	0.5mVp-p	6m/p-p	6mVp-p
	50ΜΩ	50M Ω	50ΜΩ	50MΩ	50ΜΩ	500ΜΩ	25ΜΩ	10ΜΩ	10MS	10/4Ω	10W25
	0.2Ω @ 10kHz	0.2Ω @ 10kHz	0.2Ω @ 10kHz	0.2Ω@ 10kHz	0.05Ω@ 10kHz	0.05Ω @ 10kHz	0.05Ω @ 10kHz	_	-	-	
	±1%	±1%	±1%	±1%	±1%	±1%	±1%	Adj.	Adj.	Adj.	Adj.
	12 oz.	18 oz.	12 oz.	18 oz.	12 oz.	17 oz.	18 oz.	7 oz.	22 oz.	7 oz.	7 oz.
	AC1013	AC1013	AC1013	AC1013	AC1013	AC1013	AC1013	see dwg.	see dwg.	see dwg.	see dwg.

MODEL 950 POWER SUPPLY MANIFOLD

This manifold permits use of the 900 series "P" cased modules on the design bench. In combination with these supplies the 950 provides a safe, convenient, and inexpensive bench supply for breadboarding, testing, or general laboratory use. Cost is just \$16 (1-9), and \$15 (10-24).

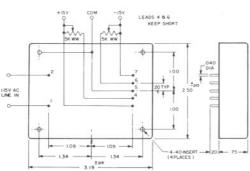
MODEL TO AMPLIFIED MANIFOLD

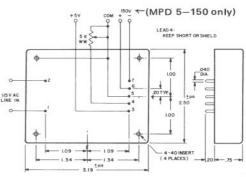
The Model 194 manifold is ideal for experimenting, bread-boarding, and/or teaching with op amps. Completely self-contained, it includes a $\pm 15 \text{VDC}$ 100mA power supply, and accepts up to 5 amplifiers in the popular 7 pin "Q" case configuration. Adapters are available for other configurations and provisions are made for a balance potentiometer for each amplifier. The unit is designed for maximum flexibility, with all connection points % in. apart. Price is \$250 each (1-9), substantially less in higher quantities.



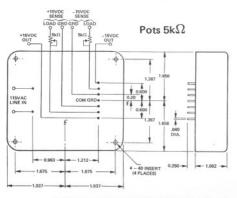
300 SERIES POWER SUPPLIES **DIMENSIONS & CONNECTIONS** (In Inches) **MATING SOCKET AC1013** "C" CASE (Cube) "P" CASE (Encapsulated) -3.50 D 3.50-4.20 2.64 _____0.040 DIA. +0.002, -0.000 0.20 MIN. 0.25 MAX. 3.50 -3.88 2.50 SOLDER JUJUU .60 MAX 0.40 NOTE: DEPTH IS ALSO 3.50 Tolerances ±0.030" \$3.50 each (1-9) O.IGRID - L "C" CASE CONNECTIONS \$3.15 each (10-24) THREADED INSERTS For units with Interwinding Pins 1 and 11 AC line Pin 2 positive output Shield, order Socket number AC1028, same price 3 positive sense, to Pin 2 at load *Indicates no connection on 5VDC logic supplies "A" diriension 0.88" 4 positive supply sense common, to Pin 5 at load as AC1013 'A" diriension 0.88" except 1.25" on Models 902, 903, 905, 932, 934 5 common for both positive and negative outputs Tolerances: 2 decimal ±0.015 6 case ground 3 decimal ±0.010 7 negative supply sense common, to Pin 5 at load Shield pin 0.500" from com mo VOTE 1 Tolerance = 0.05" for Pin 8 negative supply sense, to Pin 9 at load Models 905 and 920 Pin 9 negative output, supply MED C Pin 10 no connection, or I option shield Connector: Amphenol 77MIP11 (supplied) INNED CASE CONNECTION ances ΓΒ1, pins 1 & 2: AC line except mounting TB1, pins 3, 4: +15VDC holes ±0.01" TB1, pin 5: case ground TB2, pin 1: +15V ground sense TB2, pin 2: ±15V common (both outputs) TB2, pin 3: -15V ground sense MOUNTING HOLES: TAPPED FOR 6-32 SCREW 6-32 MOUNTING HOLES ALSO ON REAR SURFACE, LOCATED ON 4.50×2.43 PATTERN TB2, pins 4,5: -15V sense, 4.50 BOTTOM VIEW MODELS MPD 5-150 and MPD 5/750 MODEL MPD 15/100 **USE MOUNTING CARD 2417A USE MOUNTING CARD 2417B** ←(MPD 5-150 only)





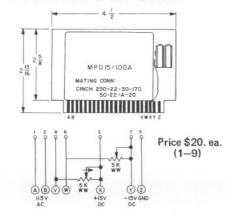


MODEL MPD 15/300 **USE MOUNTING CARD 4482**

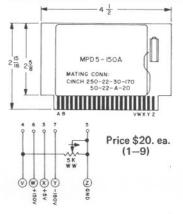


Mounting Card 4482, \$25. ea. (1-9)

MOUNTING CARD 2417A



MOUNTING CARD 2417B



AMEYA360 Components Supply Platform

Authorized Distribution Brand:

























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