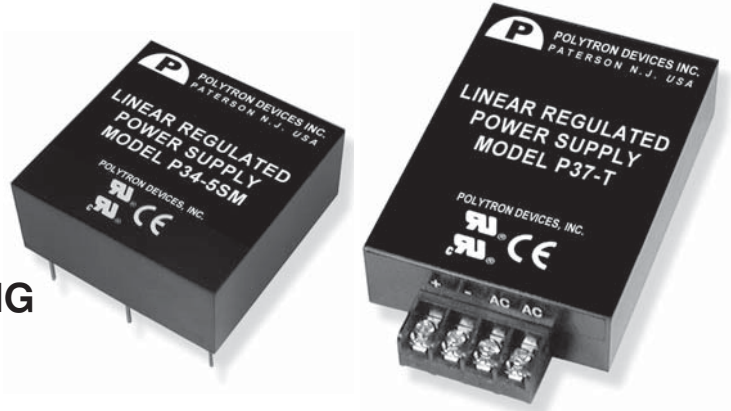




# LINEAR ENCAPSULATED POWER MODULES

REGULATED 5Vdc-250Vdc  
P.C. CARD OR CHASSIS MOUNTING



## FEATURES

- **UL, CE & CSA Approved (All Models)**
- **Regulation Line & Load 0.2% to 0.02%**
- **P.C. Card/Chassis Mounting**
- **High Isolation Voltage Available**
- **Short Circuit Protection**
- **Single, Dual & Triple Outputs**
- **Finger Safe Terminal Available**

P3, P5 Series

## Specifications

115 Vac, 50 to 400 Hz @ 25°C

### INPUT

Voltage Range.....105-125 Vac, 50-60 Hz  
.....400Hz available

*For Worldwide Input Voltage Options, see Options Available chart on pg. 4*

### OUTPUT

Voltage Accuracy @ FL for Singles, .....±1.0%  
Line Regulation: Single Output.....±0.2%  
Load Regulation: Single Output.....±0.2%  
Temperature Coefficient .....±0.02%/°C typ.

### GENERAL

Isolation Resistance.....50MOhms  
Protection.....Short Circuit Protection

### ENVIRONMENTAL

Operating Temperature Range.....-25 to +71°C  
.....-40 to +85°C Optional  
Storage Temperature Range.....-25 to +85°C  
Cooling.....Free Air Convection

### PHYSICAL

Dimensions.....See Chart and Diagrams

1. Case style ending with letter "T"(Chassis mounted units with terminal barrier strip) are designated by the suffix "T" . Case styles A,B,C,D,G and E (PC card mounting) do not require suffixing.
2. **Most competitors pinouts available--contact factory.**
3. For 400HZ, use suffix "04" after model number.
4. For wide operating temperature range, use "W" suffix after model number.

**FAST DELIVERY**

**Selection Guide**

(Continued)

	Output (Vdc)	Output Current (mA)	Regulation		Ripple & Noise (mV rms)	Case	Model Number	Slow Blow (A)	
			Line	Load					
<b>SINGLE OUTPUT VOLTAGE</b>	5	200	0.20%	0.20%	1.0	G, 1GT	P34-5SM	1/32	
		500	0.20%	0.20%	0.5	A, 1AT	P37	1/16	
		500	0.02%	0.05%	0.5	A, 1AT	P37-1	1/16	
		1000	0.20%	0.20%	1.0	B, 1BT	P38	1/8	
		1000	0.02%	0.05%	1.0	B, 1BT	P38-1	1/8	
		1000	0.02%	0.05%	0.5	C, 1CT	P38/1.56	1/8	
		2000	0.02%	0.10%	1.0	C, 1CT	P39	1/4	
		3000	0.02%	0.15%	1.0	D, 1DT	P39-3	3/8	
	9	2000	0.02%	0.10%	0.5	D, 1DT	P39-9ST	1/2	
	10	120	0.10%	0.10%	1.0	E, 1ET	P33-10SM	1/32	
		150	0.10%	0.10%	1.0	A, 1AT	P33-10S	1/16	
		250	0.10%	0.10%	1.0	B, 1BT	P34-10S	1/16	
		500	0.02%	0.05%	0.5	C, 1CT	P37-10S	1/8	
		1000	0.02%	0.05%	0.5	D, 1DT	P38-10S	3/8	
		1500	0.02%	0.05%	0.5	D, 1DT	P38-10SA	1/4	
	12	100	0.10%	0.10%	1.0	E, 1ET	P32-12SM	1/32	
		120	0.02%	0.10%	1.0	A, 1AT	P33-12S	1/16	
		200	0.10%	0.10%	1.0	B, 1BT	P34-12S	1/16	
		500	0.02%	0.10%	0.5	C, 1CT	P37-12S	1/5	
		1000	0.10%	0.10%	1.0	D, 1DT	P38-12S	3/10	
15	80	0.10%	0.10%	1.0	E, 1ET	P33-15SM	1/32		
	120	0.02%	0.10%	1.0	A, 1AT	P33-12S	1/16		
	200	0.10%	0.10%	1.0	B, 1BT	P34-15S	1/10		
	300	0.10%	0.10%	1.0	C, 1CT	P35-15S	1/8		
	500	0.02%	0.10%	0.5	C, 1CT	P37-15S	1/5		
	800	0.02%	0.10%	1.0	D, 1DT	P38-15S	3/10		
18	50	0.10%	0.10%	1.0	E, 1ET	P32-18SM	1/32		
	50	0.02%	0.05%	1.0	A, 1AT	P32-18S	1/32		
	100	0.02%	0.05%	1.0	B, 1BT	P33-18S	1/16		
24	50	0.10%	0.10%	1.0	E, 1ET	P32-24SM	1/32		
	100	0.10%	0.10%	1.0	A, 1AT	P33-24S	1/16		
	200	0.10%	0.10%	1.0	B, 1BT	P34-24S	1/8		
	300	0.10%	0.10%	1.0	C, 1CT	P35-24S	1/5		
	500	0.10%	0.10%	1.0	D, 1DT	P37-24S	1/4		
	800	0.10%	0.10%	1.0	H, 1HT	P38-24S	3/8		
	1000	0.10%	0.10%	1.0	H, 1HT	P39-24S	1/2		
48	50	0.20%	0.20%	2.0	B, 1BT	P32-48S	1/16		
	100	0.20%	0.20%	2.0	B, 1BT	P33-48S	1/8		
	200	0.20%	0.20%	2.0	C, 1CT	P34-48S	1/4		
50	50	0.05%	0.20%	2.0	B, 1BT	P32-50S	1/16		
	100	0.05%	0.20%	2.0	B, 1BT	P33-50S	1/8		
	200	0.05%	0.20%	2.0	C, 1CT	P34-50S	1/4		
	300	0.20%	0.20%	3.0	D, 1DT	P35-50S	3/8		
75	35	0.05%	0.20%	2.0	B, 1BT	P32-75S	1/10		
	70	0.05%	0.20%	2.0	B, 1BT	P33-75S	1/5		
	150	0.05%	0.20%	2.0	C, 1CT	P34-75S	3/10		
	200	0.10%	0.20%	3.0	D, 1DT	P35-75S	3/8		
100	25	0.05%	0.20%	2.0	B, 1BT	P32-100S	1/16		
	50	0.05%	0.20%	2.0	B, 1BT	P33-100S	1/8		
	100	0.05%	0.20%	3.0	C, 1CT	P34-100S	1/4		
	150	0.10%	0.20%	3.0	D, 3DT	P35-100S	3/8		

1. Case style ending with letter "T"(Chassis mounted units with terminal barrier strip) are designated by the suffix "T" . Case styles A,B,C,D,G and E (PC card mounting) do not require suffixing.
2. **Most competitors pinouts available--contact factory.**
3. For 400HZ, use suffix "04" after model number.
4. For wide operating temperature range, use "W" suffix after model number.



**DABURN ELECTRONICS & CABLE**

44 Richboynton Road, Dover, New Jersey 07801 U.S.A.

Tel: (973)328-3200 Fax: (973)328-3130 - Email: [daburn@daburn.com](mailto:daburn@daburn.com) - Website: [www.daburn.com](http://www.daburn.com)

Ver. 1.0

Selection Guide

(Continued)

	Output (Vdc)	Output Current (mA)	Regulation		Ripple & Noise (mV rms)	Case	Model Number	Slow Blow (A)		
			Line	Load						
SINGLE OUTPUT	150	17	0.05%	0.20%	2.0	A,1AT	P32-150S	1/16		
		35	0.05%	0.20%	3.0	B,1BT	P33-150S	2/10		
		70	0.05%	0.20%	3.0	C,1CT	P34-150S	1/4		
		100	0.20%	0.20%	3.0	D,1DT	P35-150S	3/8		
	180	15	0.05%	0.20%	3.0	B, 1BT	P32-180S	1/16		
		30	0.05%	0.20%	3.0	B, 1BT	P33-180S	1/5		
		55	0.05%	0.20%	3.0	C, 1CT	P34-180S	1/4		
		80	0.10%	0.20%	3.0	D, 1DT	P35-180S	3/8		
	200	12	0.05%	0.20%	3.0	B, 1BT	P32-200S	1/16		
		25	0.05%	0.20%	3.0	B, 1BT	P33-200S	1/8		
		50	0.05%	0.20%	3.0	C, 1CT	P34-200S	1/4		
		75	0.10%	0.20%	3.0	D, 1DT	P35-200S	3/8		
	250	10	0.05%	0.20%	3.0	B, 1BT	P32-250S	1/16		
		20	0.05%	0.20%	3.0	B, 1BT	P33-250S	1/8		
		40	0.05%	0.20%	3.0	C, 1CT	P34-250S	1/4		
		60	0.10%	0.20%	3.0	D, 1DT	P35-250S	3/8		
DUAL OUTPUTS	±5	±50	0.02%	0.02%	1.0	A, 2AT	P32-5	1/32		
		±100	0.10%	0.10%	1.0	A, 2AT	P33-5	1/32		
		±200	0.10%	0.10%	1.0	B, 2BT	P34-5	1/16		
		±300	0.02%	0.05%	0.5	C, 2CT	P35-5	1/10		
		±500	0.02%	0.05%	0.5	C, 2CT	P37-5	1/8		
		±1000	0.01%	0.10%	1.0	D, 2DT	P38-5	1/4		
	±8	±500	0.10%	0.10%	2.0	D, 2DT	P37-8	1/5		
	±10	±100	0.02%	0.05%	2.0	A, 2AT	P33-10	1/16		
	±12	±25	0.10%	0.10%	2.0	G, 1GT	P31-12M	1/32		
		±25	0.02%	0.05%	5.0	A, 2AT	P31-12	1/32		
		±50	0.02%	0.05%	5.0	A, 2AT	P32-12	1/32		
		±100	0.10%	0.10%	1.0	A, 2AT	P33-12	1/16		
		±200	0.10%	0.10%	1.0	B, 2BT	P34-12	1/8		
		±300	0.10%	0.10%	1.0	C, 2CT	P35-12	1/5		
		±500	0.10%	0.10%	1.0	D, 2DT	P37-12	3/10		
		±800	0.10%	0.10%	1.0	D, 2DT	P38-12	2/5		
		±15	±25	0.10%	0.10%	2.0	G, 1GT	P31-M	1/32	
			±25	0.20%	0.20%	1.0	A, 2AT	P31	1/32	
			±25	0.02%	0.02%	0.5	A, 2AT	P31-1	1/32	
			±50	0.20%	0.20%	1.0	A, 2AT	P32	1/16	
	±50		0.02%	0.02%	0.5	A, 2AT	P32-1	1/16		
	±100		0.20%	0.20%	1.0	A, 2AT	P33	1/10		
	±100		0.02%	0.02%	1.0	A, 2AT	P33-1	1/10		
	±200		0.20%	0.20%	1.0	B, 2BT	P34	1/5		
	±200		0.02%	0.05%	1.0	B, 2BT	P34-1	1/5		
	±350		0.20%	0.20%	1.0	C, 2CT	P35	1/4		
	±350		0.02%	0.05%	1.0	C, 2CT	P35-1	1/4		
	±500		0.10%	0.10%	1.0	D, 2DT	P37-15	3/8		
	±800	0.10%	0.10%	1.0	D, 2DT	P38-15	1/2			
	±18	±50	0.10%	0.10%	1.0	A, 2AT	P32-18	1/16		
		±100	0.10%	0.10%	1.0	B, 2BT	P33-18	1/10		
	±24	±50	0.10%	0.10%	1.0	B, 2BT	P32-24	1/16		
		±100	0.10%	0.20%	1.0	B, 2BT	P33-24	1/8		
		±200	0.10%	0.20%	1.0	C, 2CT	P34-24	1/4		
	TRIPLE VOLTAGE	5/±12	250/±60	0.02%	0.10%	1.0	C, 3CT	P51-12	1/10	
			250/±120	0.02%	0.10%	1.0	C, 3CT	P52-12	1/10	
			300/±180	0.02%	0.10%	1.0	C, 3CT	P53-12L	1/5	
			500/±120	0.02%	0.10%	1.0	C, 3CT	P53-12	1/5	
			1000/±150	0.02%	0.10%	1.0	D,3DT	P53-1280	1/4	
		5/±15	250/±50	0.02%	0.10%	1.0	C, 3CT	P51-15	1/10	
			250/±100	0.02%	0.10%	1.0	C, 3CT	P52-15	1/10	
			300/±150	0.02%	0.10%	1.0	C, 3CT	P53-15L	1/5	
500/±100			0.02%	0.10%	1.0	C, 3CT	P53-15	1/5		
1000/±150			0.02%	0.10%	1.0	D, 3DT	P53-1580	1/4		

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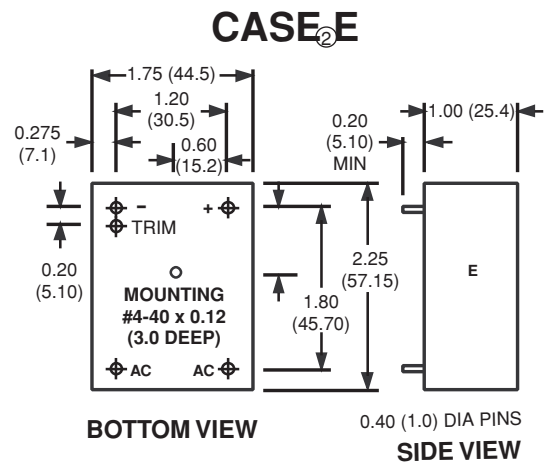
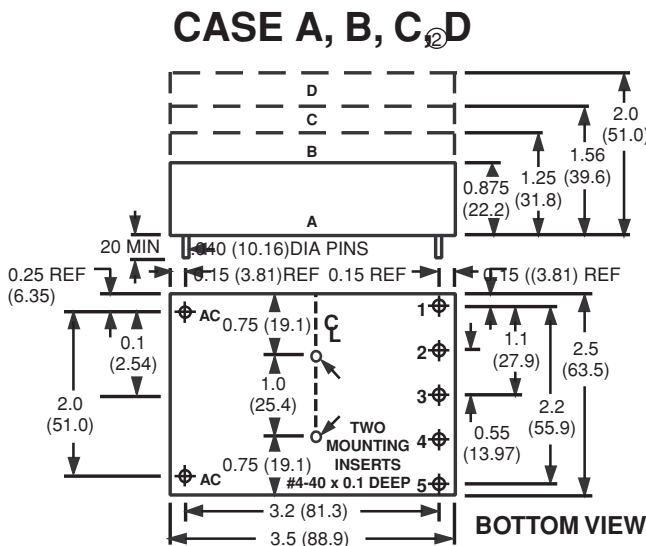
### Mechanical Specification

I/O Connections			
Pin	SINGLE	DUAL	TRIPLE
1	-Vdc*	-Vdc*	Com (5)
2	No Pin	No Pin	+5Vdc
3	Com*	Com*	-12 / -15
4	No Pin	No Pin	CMN (12/15)
5	+Vdc	+Vdc	+12 / +15

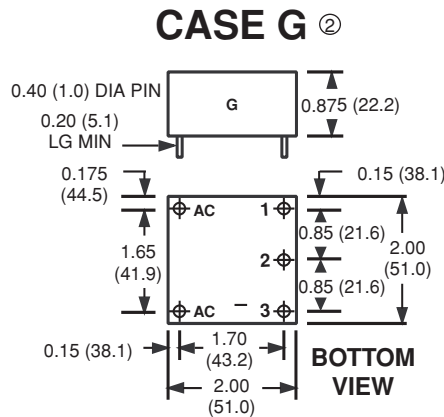
\* -Vdc Internally connected to COM for single output units.

OPTIONS AVAILABLE	SUFFIX	
220Vac	X	
230Vac	XA	
240Vac	XE	
100Vac	Q	
115/220	AX	
Alternate Pin-Out	22	
Chassis mounting with terminal barrier strip (case styles ending with letter ("T"))	T	
Finger Safe Chassis Mount Terminal Barrier Strip	FST	
Wide Oper. Temp. Range	W	
400Hz	04	

② Most competitors pinouts available--contact factory.



All Dimensions are in inches (mm)



P34-5SM: ① + 5VDC ② and ③ COM  
 P31-M + P31-12M: ① - 15VDC ② COM  
 ③ + 15VDC



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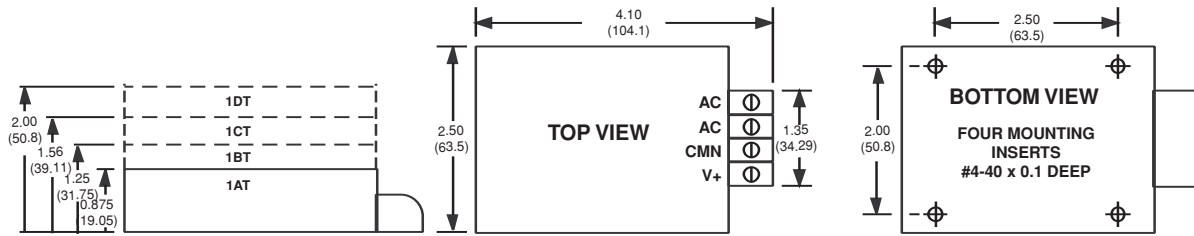
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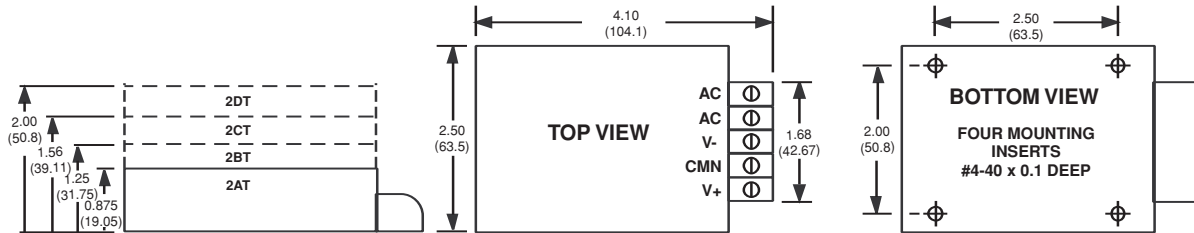
Power Supply Options

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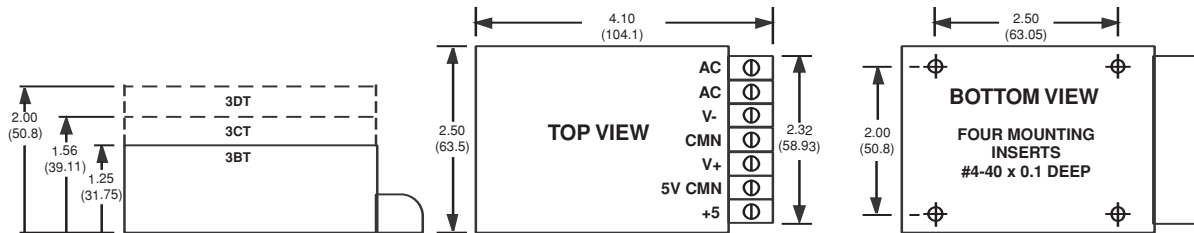
CHASSIS MOUNTED UNITS



SINGLE OUTPUT MODELS



DUAL OUTPUT MODELS

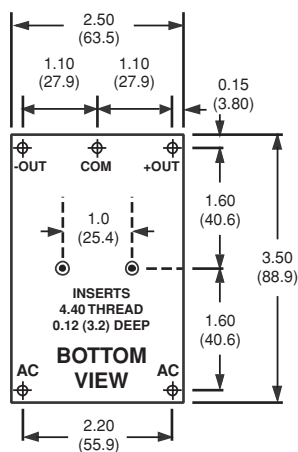


TRIPLE OUTPUT MODELS

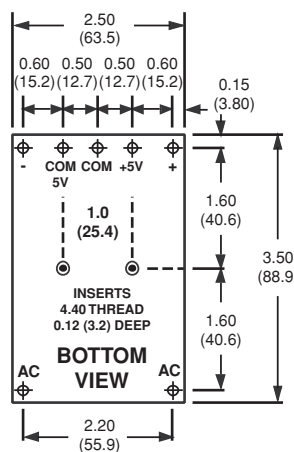
All Dimensions are in inches (mm)

ALTERNATE PIN-OUT

SINGLE & DUAL OUTPUT MODELS

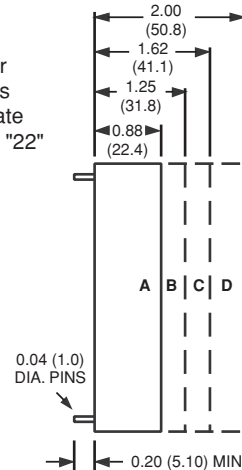


TRIPLE OUTPUT MODELS



Note:  
 \* No connection for single output units  
 \* To specify alternate pin-out use suffix "22"

SIDE VIEW



All Dimensions are in inches (mm)



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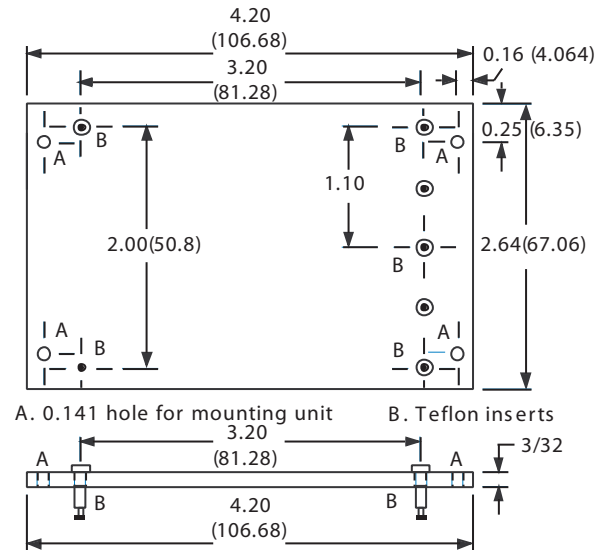
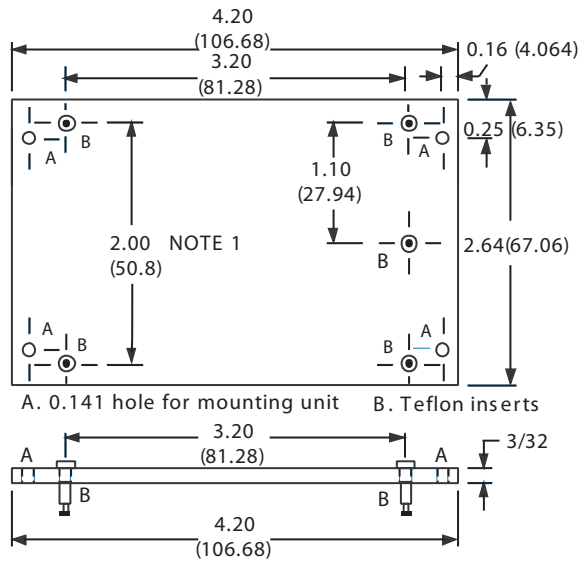
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# POWER SUPPLY ACCESSORIES

(Continued)

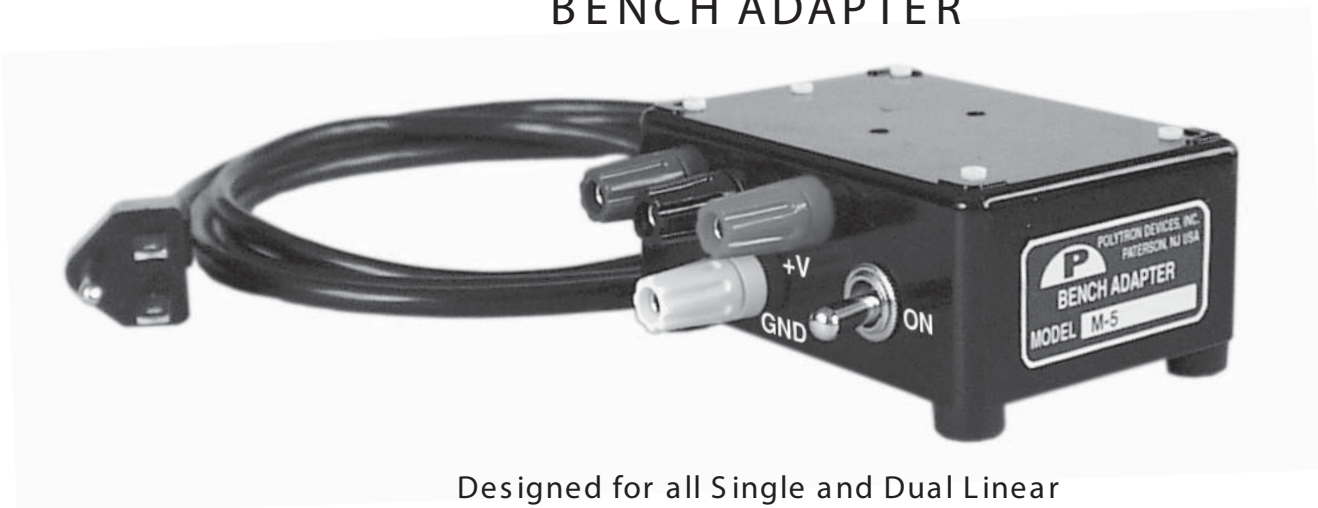
## SOCKETS



NOTE 1: For 2.2" AC pin spacing specify S-5/22

All Dimensions are in inches(mm)

## BENCH ADAPTER



Designed for all Single and Dual Linear Power Supplies in Cases A, B, C, D.

MODEL M-5 (2.0" AC Pin Spacing)  
M-5/22(2.2" AC PIN SPACING)