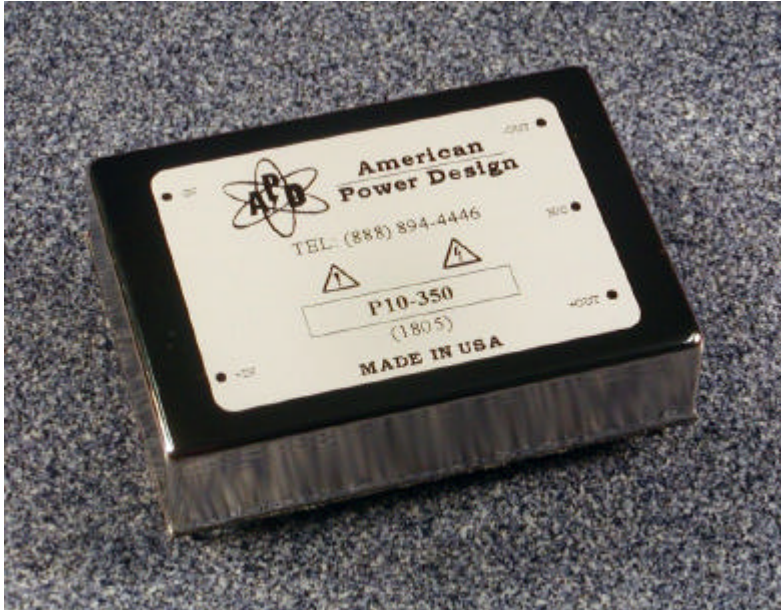




# American Power Design, Inc.

"The best high voltage design solution"

## P10 SERIES 10 WATT HIGH VOLTAGE DC/DC CONVERTERS



## FEATURES

- \* Customer Selects Output Voltages
- \* Output Voltages to 8000Vdc
- \* Proportional Output Voltage
- \* Efficiency 80% (typ.)
- \* 5000 Vdc Output Isolation
- \* Six-Sided Shielded Case
- \* Continuous Short Circuit Protection
- \* 60 kHz Switching Frequency

The P10 Series of DC/DC converters offer a 5000 Vdc isolated high voltage output directly proportional to input voltage. All models will tolerate a short circuit indefinitely. They also include a Pi Network input filter to minimize reflected ripple current.

## ELECTRICAL SPECIFICATIONS

Voltage Accuracy .....	+/- 10%	Short Circuit Protection .....	Continuous
Input Regulation .....	Proportional	Input Filter .....	Pi Network
Load Regulation .....	+/- 10%	Efficiency .....	80% (typ.)
Output Ripple .....	< 0.3%	Switching Frequency .....	60 kHz
		Isolation .....	5000 Vdc

## GENERAL SPECIFICATIONS

Temp. Stability .....	+/- 0.02%/°C	EMI/RFI .....	Six-Sided Shield
Temp. (Operating,Case) .....	-20 to +85°C	Temp. Derating .....	None
Temp. (Storage) .....	-55 to +100°C	Cooling .....	Free-Air Convection

\* All models designed to meet UL 60950  
 \* For RoHS Compliant part, add suffix /Y

## PHYSICAL SPECIFICATIONS

Dimensions .....	2.5 x 3.5 x 0.88 inches	Case Material .....	Nickel Plated Copper (With Non-Conductive Base Plate)
Weight .....	9.5 Oz		



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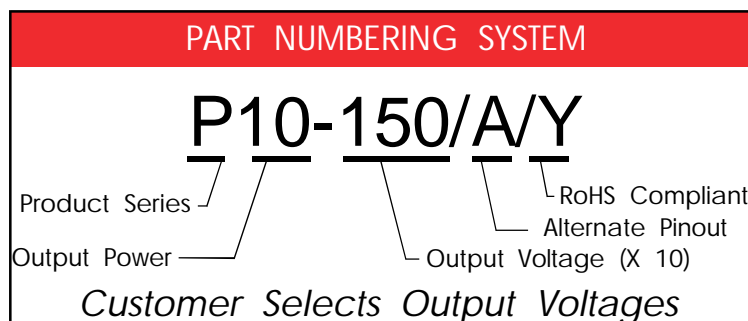
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## P10 SERIES 10 WATT HIGH VOLTAGE DC/DC CONVERTERS

REPRESENTATIVE MODEL LISTING					
MODEL NUMBER	INPUT SPECIFICATIONS		OUTPUT SPECIFICATIONS		
	VOLTAGE	CURRENT	VOLTAGE	RIPPLE	CURRENT
P10-10	4V - 12V	1A	33 - 100	0.3V p-p	100 mA
P10-50	4V - 12V	1A	166 - 500	1.5V p-p	20 mA
P10-100	4V - 12V	1A	333 - 1,000	3V p-p	10 mA
P10-150	4V - 12V	1A	500 - 1,500	4.5V p-p	6.6 mA
P10-200	4V - 12V	1A	666 - 2,000	6V p-p	5 mA
P10-250	4V - 12V	1A	833 - 2,500	7.5V p-p	4 mA
P10-300	4V - 12V	1.1A	1,000 - 3,000	9V p-p	3.3 mA
P10-350	4V - 12V	1.1A	1,166 - 3,500	10V p-p	2.8 mA
P10-400	4V - 12V	1.1A	1,333 - 4,000	10V p-p	2.5 mA
P10-450	4V - 12V	1.1A	1,500 - 4,500	10V p-p	2.2 mA
P10-500	4V - 12V	1.1A	1,666 - 5,000	10V p-p	2 mA
P10-550	4V - 12V	1.1A	1,833 - 5,500	10V p-p	1.8 mA
P10-600	4V - 12V	1.15A	2,000 - 6,000	10V p-p	1.6 mA
P10-650	4V - 12V	1.15A	2,166 - 6,500	10V p-p	1.5 mA
P10-700	4V - 12V	1.15A	2,333 - 7,000	10V p-p	1.4 mA
P10-800	4V - 12V	1.15A	2,666 - 8,000	10V p-p	1.2 mA

\* RoHS Compliant add suffix /Y

\* Alternate Pinout add suffix /A

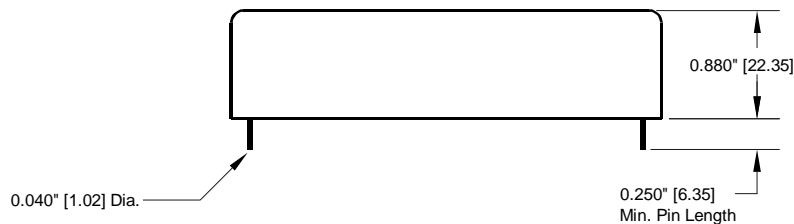
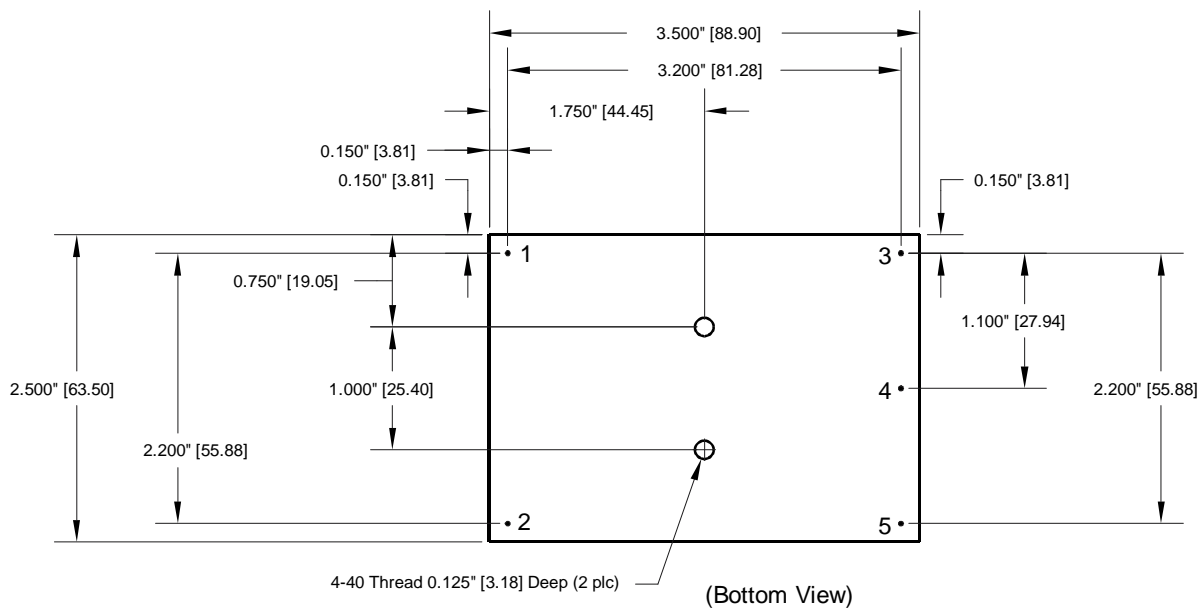




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## P10 SERIES 10 WATT HIGH VOLTAGE DC/DC CONVERTERS



Pin #	Default Pinout
1	+ INPUT
2	- INPUT
3	+ OUTPUT
4	N/C
5	- OUTPUT

Dimensions are in Inches  
[Metric equivalents in brackets]

Pin #	Alternate Pinout (/A)
1	+ INPUT
2	- INPUT
3	- OUTPUT
4	N/C
5	+ OUTPUT