



# American Power Design, Inc.

"The best high voltage design solution"

## X20 SERIES 20 WATT HIGH VOLTAGE DC/DC CONVERTERS



## FEATURES

### \* Customer Selects Output Voltages

- \* Wide Input Ranges  
( 9-36 Vdc , 20-60 Vdc, 36-72Vdc)
- \* Efficiency 82% (typ.)
- \* Independently Isolated Outputs
- \* Remote On/Off Control
- \* 0.2% Line Regulation
- \* 0.3% Load Regulation

The X20 Series of DC/DC converters accepts wide input ranges of 9-36 Vdc, 20-60 Vdc, & 36-72 Vdc. Outputs are isolated to 1kVdc. In the case of duals, the outputs are completely independent including overload protection. All models will tolerate a short circuit indefinitely. Also included is a Pi input filter and remote on/off.

## ELECTRICAL SPECIFICATIONS

Voltage Accuracy .....	+/- 1%	Short Circuit Protection .....	Input Current Foldback
Input Regulation .....	+/- 0.2%	Input Filter .....	Pi Network
Load Regulation .....	+/- 0.3%	Efficiency .....	82% (typ.)
Output Ripple .....	+/- 0.3%	Switching Frequency .....	120 kHz
		Isolation (Input-Output(1)-Output(2)-Case).....	1Kvdc

\* 20-60 Vdc Input add suffix /B  
\* 36-72 Vdc Input add suffix /C

## GENERAL SPECIFICATIONS

Temp. Stability .....	+/- 0.02%/°C	Logic Shutdown .....	Logic 0 (on)
Temp. (Operating, Case) .....	-45 to +85°C	EMI/RFI .....	Six-Sided Shield
Temp. (Storage) .....	-55 to +100°C	Temp. Derating .....	None
		Cooling .....	Free-Air Convection

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

## PHYSICAL SPECIFICATIONS

Dimensions .....	2.5 x 3.0 x 0.83 inches	Case Material .....	Nickel Plated Copper (With Non-Conductive Base Plate)
Weight .....	8.4 Oz		



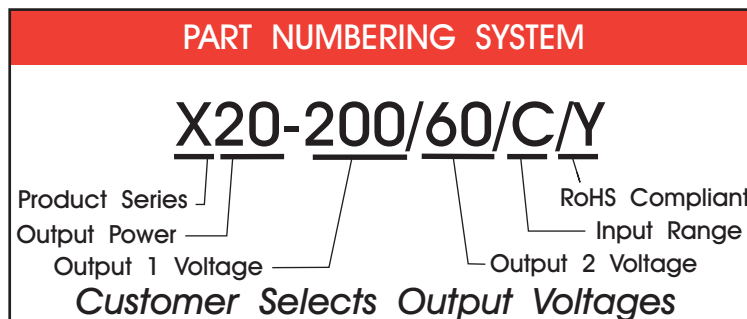
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REPRESENTATIVE MODEL LISTING						
MODEL NUMBER	INPUT SPECIFICATIONS		OUTPUT SPECIFICATIONS			
	VOLTAGE	CURRENT	OUTPUT #1		OUTPUT #2	
			VOLTAGE	CURRENT	VOLTAGE	CURRENT
X20-50	9V - 36V	2.6A - 0.63A	50V	400ma	-	-
X20-50/50	9V - 36V	2.6A - 0.63A	50V	200ma	50v	200ma
X20-75	9V - 36V	2.6A - 0.63A	75V	266ma	-	-
X20-75/75	9V - 36V	2.6A - 0.63A	75V	132ma	75v	132ma
X20-100	9V - 36V	2.6A - 0.63A	100V	200ma	-	-
X20-100/100	9V - 36V	2.6A - 0.63A	100V	100ma	100v	100ma
X20-150	9V - 36V	2.6A - 0.63A	150V	132ma	-	-
X20-150/150	9V - 36V	2.6A - 0.63A	150V	66ma	150v	66ma
X20-200	9V - 36V	2.6A - 0.63A	200V	100ma	-	-
X20-200/200	9V - 36V	2.6A - 0.63A	200V	50ma	200v	50ma
X20-300	9V - 36V	2.6A - 0.63A	300V	66ma	-	-
X20-300/300	9V - 36V	2.6A - 0.63A	300V	32ma	300v	32ma
X20-400	9V - 36V	2.6A - 0.63A	400V	50ma	-	-
X20-400/400	9V - 36V	2.6A - 0.63A	400V	24ma	400v	24ma
X20-500	9V - 36V	2.6A - 0.63A	500V	40ma	-	-
X20-500/500	9V - 36V	2.6A - 0.63A	500V	20ma	500v	20ma

- \* 20-60 Vdc input add suffix /B
- \* 36-72 Vdc input add suffix /C
- \* RoHS Compliant add suffix /Y

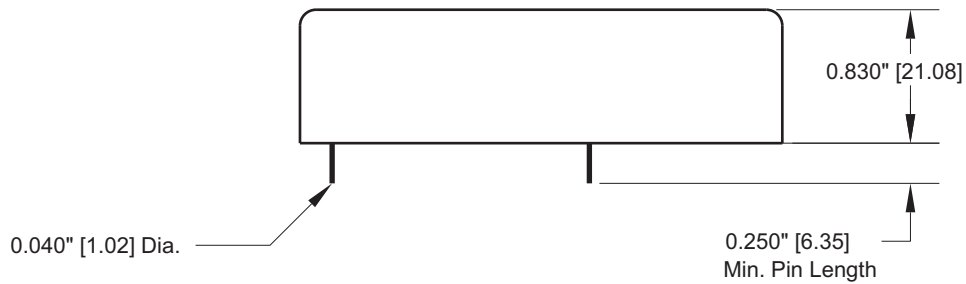
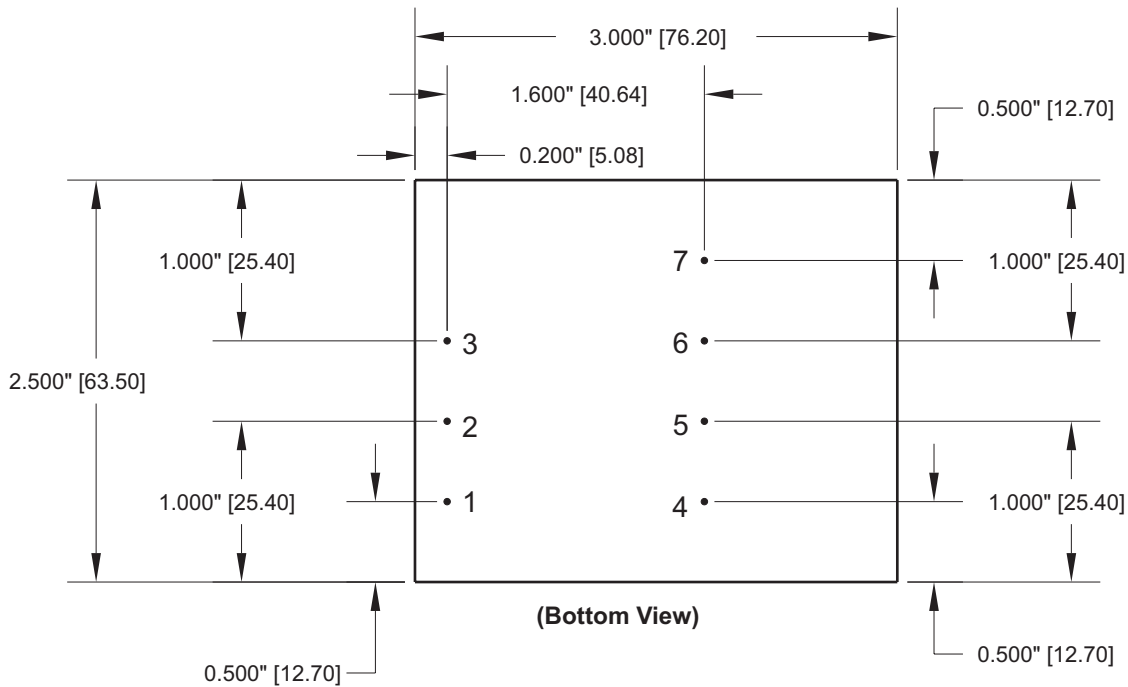




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Pin #	Single	Dual
1	- INPUT	- INPUT
2	On/Off	On/Off
3	+ INPUT	+ INPUT
4	No Pin	OUTPUT 2 +
5	No Pin	OUTPUT 2 -
6	OUTPUT 1 -	OUTPUT 1 -
7	OUTPUT 1 +	OUTPUT 1 +

*Dimensions are in Inches  
[Metric equivalents in brackets]*