



# American Power Design, Inc.

"The best high voltage design solution"

## H30 SERIES 30 WATT HIGH VOLTAGE DC/DC CONVERTERS



### FEATURES

**\* Customer Selects Output Voltages**

- \* Wide Input Ranges  
(9-36 Vdc , 20-60 Vdc)
- \* Efficiency 87% (typ.)
- \* Independently Isolated Outputs
- \* Six-Sided Shield Case
- \* Remote On/Off Control
- \* 100 kHz Switching Frequency

The H30 Series of DC/DC converters accepts ultra wide input ranges of 9-36 Vdc, & 20-60 Vdc. Outputs are independently isolated. In the case of duals, full power may be taken from either output. All models will tolerate a short circuit indefinitely. Also included is a Pi input filter and remote on/off.

### ELECTRICAL SPECIFICATIONS

Voltage Accuracy .....	+/- 3%	Short Circuit Protection .....	Input Current Foldback
Input Regulation.....	+/-4%	Input Filter .....	Pi Network
Load Regulation .....	(20% to full load) +/-4%	Efficiency .....	87% (typ.)
Output Ripple.....	+/-0.4%	Switching Frequency .....	100 kHz
		Isolation (Input-Output(1)-Output(2)-Case).....	1Kv

*\* 20-60 Vdc input add suffix /B*

### 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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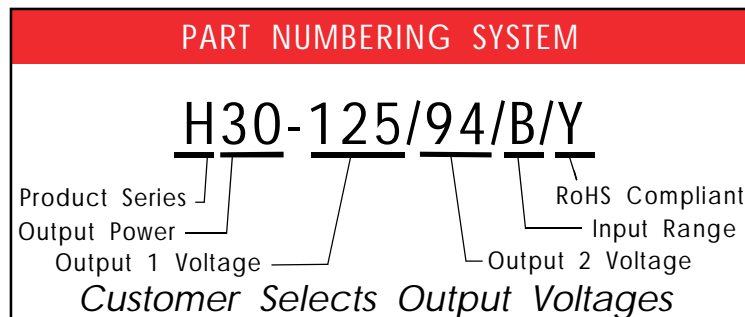
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REPRESENTATIVE MODEL LISTING						
MODEL NUMBER	INPUT SPECIFICATIONS		OUTPUT SPECIFICATIONS			
	VOLTAGE	CURRENT	OUTPUT #1		OUTPUT #2	
			VOLTAGE	CURRENT	VOLTAGE	CURRENT
H30-50	9V - 36V	3.9A - .96A	50V	600ma	-	-
H30-50/50	9V - 36V	3.9A - .96A	50V	300ma	50v	300ma
H30-75	9V - 36V	3.9A - .96A	75V	400ma	-	-
H30-75/75	9V - 36V	3.9A - .96A	75V	200ma	75v	200ma
H30-100	9V - 36V	3.9A - .96A	100V	300ma	-	-
H30-100/100	9V - 36V	3.9A - .96A	100V	150ma	100v	150ma
H30-150	9V - 36V	3.9A - .96A	150V	200ma	-	-
H30-150/150	9V - 36V	3.9A - .96A	150V	100ma	150v	100ma
H30-200	9V - 36V	3.9A - .96A	200V	150ma	-	-
H30-200/200	9V - 36V	3.9A - .96A	200V	75ma	200v	75ma
H30-300	9V - 36V	3.9A - .96A	300V	100ma	-	-
H30-300/300	9V - 36V	3.9A - .96A	300V	50ma	300v	50ma
H30-400	9V - 36V	3.9A - .96A	400V	75ma	-	-
H30-400/400	9V - 36V	3.9A - .96A	400V	37ma	400v	37ma
H30-500	9V - 36V	3.9A - .96A	500V	60ma	-	-
H30-500/500	9V - 36V	3.9A - .96A	500V	30ma	500v	30ma

\* 20-60 Vdc input add suffix /B

\* RoHS Compliant add suffix /Y

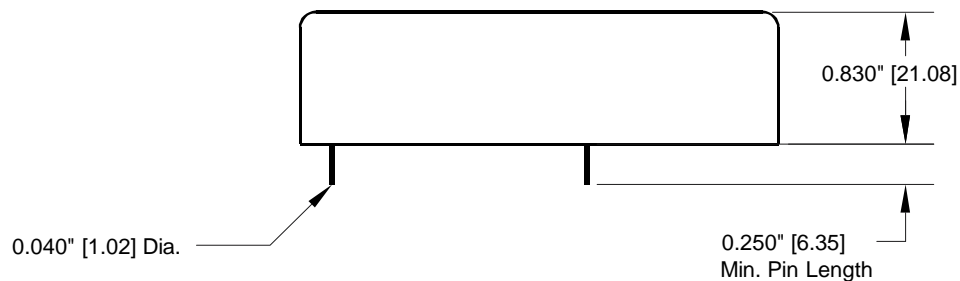
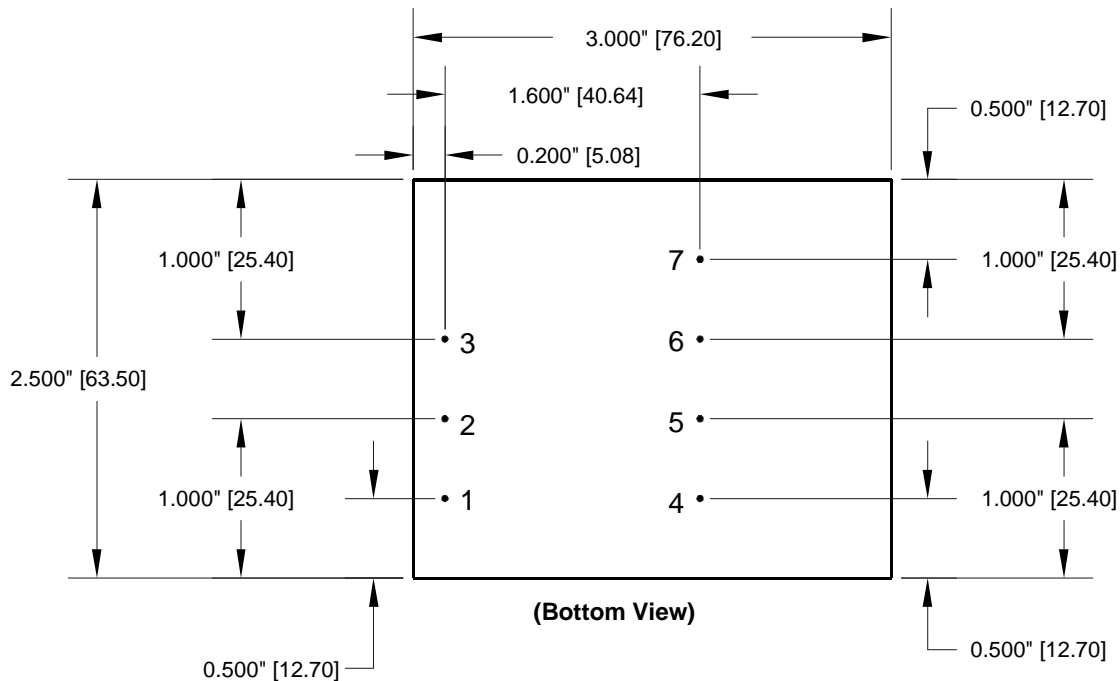




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Pin #	Single	Dual
1	- INPUT	- INPUT
2	On/Off	On/Off
3	+ INPUT	+ INPUT
4	No Pin	OUTPUT 2 +
5	No Pin	OUTPUT 2 -
6	OUTPUT 1 -	OUTPUT 1 -
7	OUTPUT 1 +	OUTPUT 1 +

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