



American Power Design, Inc.

"The best high voltage design solution"

H20 SERIES 20 WATT HIGH VOLTAGE DC/DC CONVERTERS



FEATURES

* Customer Selects Output Voltages

- * Wide Input Ranges
(5-15 Vdc , 9-36 Vdc , 20-60 Vdc)
- * Efficiency 85% (typ.)
- * Independently Isolated Outputs
- * Six-Sided Shield Case
- * Remote On/Off Control
- * 100 kHz Switching Frequency

The H20 Series of DC/DC converters accepts ultra wide input ranges of 5-15 Vdc, 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.....	+/-3%	Input Filter	Pi Network
Load Regulation	(20% to full load) +/-3%	Efficiency	85% (typ.)
Output Ripple.....	+/-0.3%	Switching Frequency	100 kHz
		Isolation (Input-Output(1)-Output(2)-Case).....	1Kv

* 9-36 Vdc Input add suffix /A
* 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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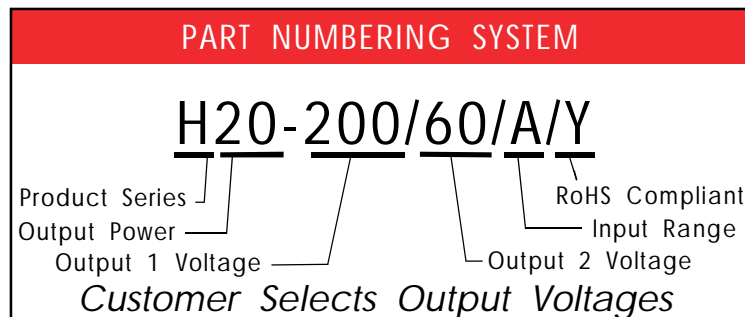
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REPRESENTATIVE MODEL LISTING						
MODEL NUMBER	INPUT SPECIFICATIONS		OUTPUT SPECIFICATIONS			
	VOLTAGE	CURRENT	OUTPUT #1		OUTPUT #2	
			VOLTAGE	CURRENT	VOLTAGE	CURRENT
H20-50	5V - 15V	4.8A - 1.6A	50V	400ma	-	-
H20-50/50	5V - 15V	4.8A - 1.6A	50V	200ma	50v	200ma
H20-75	5V - 15V	4.8A - 1.6A	75V	266ma	-	-
H20-75/75	5V - 15V	4.8A - 1.6A	75V	132ma	75v	132ma
H20-100	5V - 15V	4.8A - 1.6A	100V	200ma	-	-
H20-100/100	5V - 15V	4.8A - 1.6A	100V	100ma	100v	100ma
H20-150	5V - 15V	4.8A - 1.6A	150V	132ma	-	-
H20-150/150	5V - 15V	4.8A - 1.6A	150V	66ma	150v	66ma
H20-200	5V - 15V	4.8A - 1.6A	200V	100ma	-	-
H20-200/200	5V - 15V	4.8A - 1.6A	200V	50ma	200v	50ma
H20-300	5V - 15V	4.8A - 1.6A	300V	66ma	-	-
H20-300/300	5V - 15V	4.8A - 1.6A	300V	32ma	300v	32ma
H20-400	5V - 15V	4.8A - 1.6A	400V	50ma	-	-
H20-400/400	5V - 15V	4.8A - 1.6A	400V	24ma	400v	24ma
H20-500	5V - 15V	4.8A - 1.6A	500V	40ma	-	-
H20-500/500	5V - 15V	4.8A - 1.6A	500V	20ma	500v	20ma

* 9-36 Vdc input add suffix /A

* 20-60 Vdc input add suffix /B

* RoHS Compliant add suffix /Y

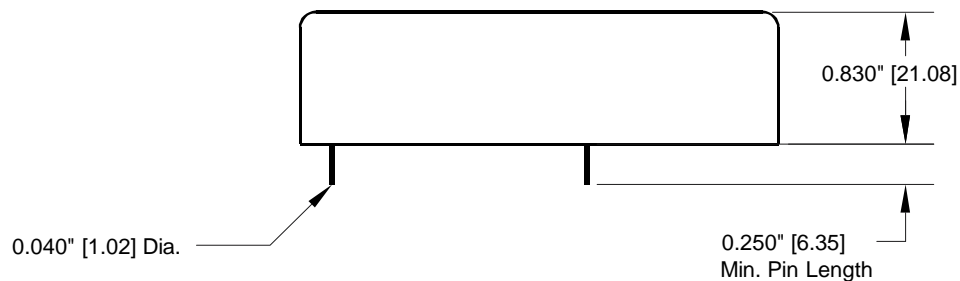
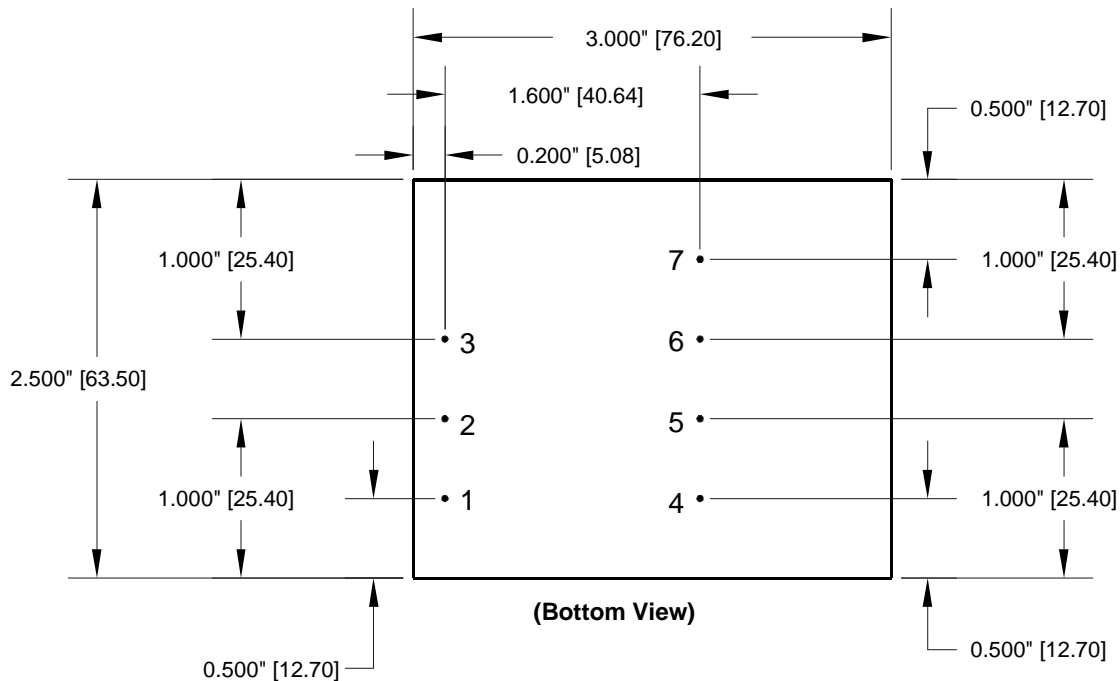




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Pin #	Single	Dual
1	- INPUT	- INPUT
2	On/Off	On/Off
3	+ INPUT	+ INPUT
4	No Pin	OUTPUT 2 +
5	No Pin	OUTPUT 2 -
6	OUTPUT 1 -	OUTPUT 1 -
7	OUTPUT 1 +	OUTPUT 1 +

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