



American Power Design, Inc.

"The best high voltage design solution"

H40 SERIES 40 WATT HIGH VOLTAGE DC/DC CONVERTERS



FEATURES

- * **Customer Selects Output Voltages**
- * Wide Input Ranges
(9-36 Vdc , 20-60 Vdc)
- * Efficiency 89% (typ.)
- * Independently Isolated Outputs
- * Six-Sided Shield Case
- * Remote On/Off Control
- * 100 kHz Switching Frequency

The H40 Series of DC/DC converters accepts ultra wide input ranges of 9-36 Vdc, and 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	89% (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	2.56 x 4.56 x 0.83 inches	Case Material.....	Nickel Plated Copper (With Non-Conductive Base Plate)
Weight	12.7 Oz		



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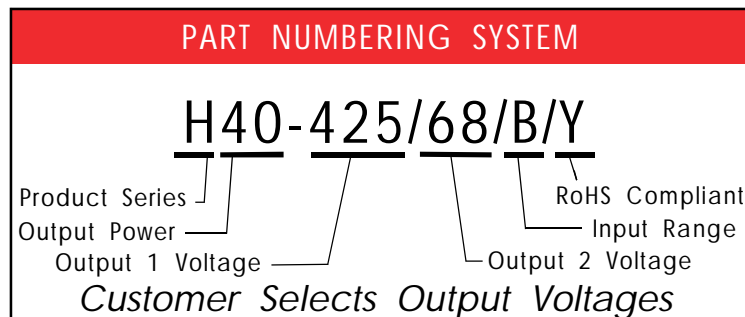
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REPRESENTATIVE MODEL LISTING						
MODEL NUMBER	INPUT SPECIFICATIONS		OUTPUT SPECIFICATIONS			
	VOLTAGE	CURRENT	OUTPUT #1		OUTPUT #2	
			VOLTAGE	CURRENT	VOLTAGE	CURRENT
H40-50	9V - 36V	5.0A - 1.3A	50V	800ma	-	-
H40-50/50	9V - 36V	5.0A - 1.3A	50V	400ma	50v	400ma
H40-75	9V - 36V	5.0A - 1.3A	75V	533ma	-	-
H40-75/75	9V - 36V	5.0A - 1.3A	75V	266ma	75v	266ma
H40-100	9V - 36V	5.0A - 1.3A	100V	400ma	-	-
H40-100/100	9V - 36V	5.0A - 1.3A	100V	200ma	100v	200ma
H40-150	9V - 36V	5.0A - 1.3A	150V	266ma	-	-
H40-150/150	9V - 36V	5.0A - 1.3A	150V	133ma	150v	133ma
H40-200	9V - 36V	5.0A - 1.3A	200V	200ma	-	-
H40-200/200	9V - 36V	5.0A - 1.3A	200V	100ma	200v	100ma
H40-300	9V - 36V	5.0A - 1.3A	300V	133ma	-	-
H40-300/300	9V - 36V	5.0A - 1.3A	300V	66ma	300v	66ma
H40-400	9V - 36V	5.0A - 1.3A	400V	100ma	-	-
H40-400/400	9V - 36V	5.0A - 1.3A	400V	50ma	400v	50ma
H40-500	9V - 36V	5.0A - 1.3A	500V	80ma	-	-
H40-500/500	9V - 36V	5.0A - 1.3A	500V	40ma	500v	40ma

* 20-60 Vdc Input add suffix /B

* RoHS Compliant add suffix /Y

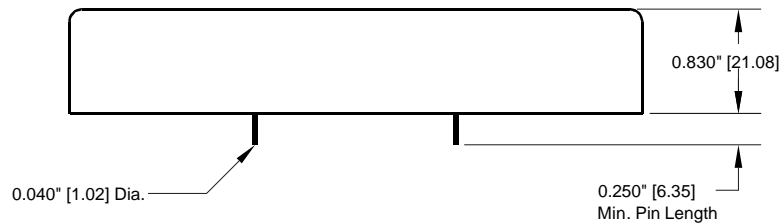
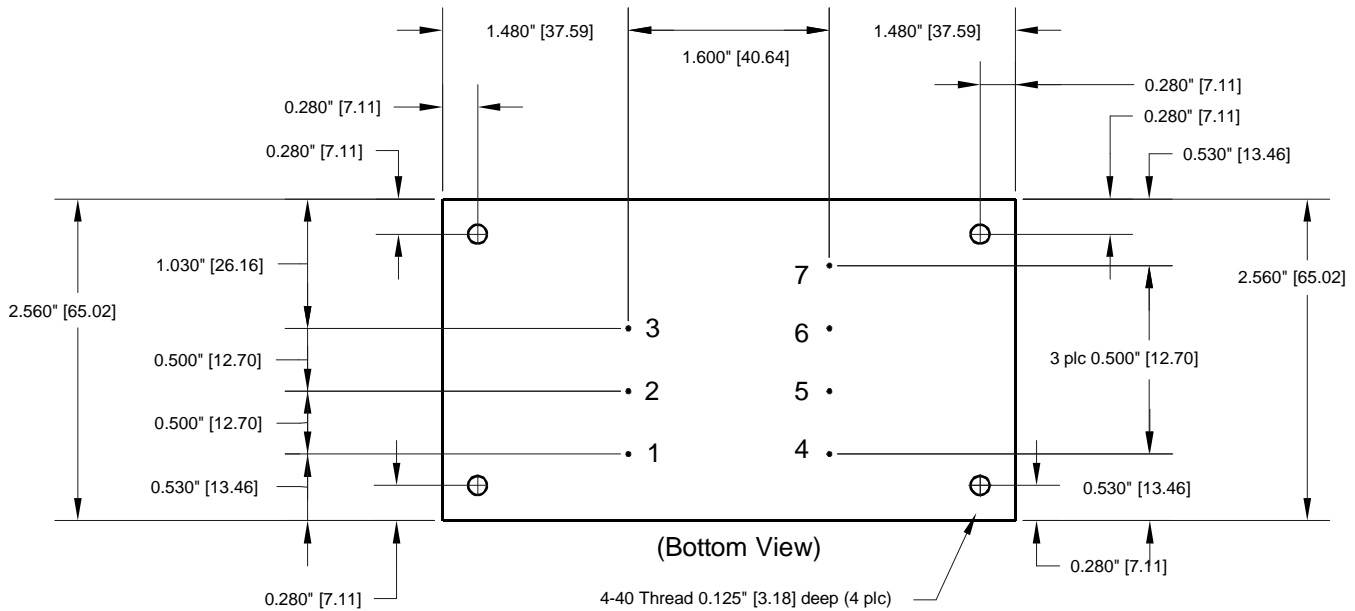




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Pin #	Single	Dual
1	- INPUT	- INPUT
2	On/Off	On/Off
3	+ INPUT	+ INPUT
4	No Pin	OUTPUT 2 +
5	No Pin	OUTPUT 2 -
6	OUTPUT 1 -	OUTPUT 1 -
7	OUTPUT 1 +	OUTPUT 1 +

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