



American Power Design, Inc.

"The best high voltage design solution"

D100 SERIES 100 WATT DC/DC CONVERTERS



FEATURES

- * Customer Selects Output Voltage
- * Outputs to 28 Vdc
- * Wide Input Ranges (10-20Vdc, 18-36Vdc, 20-60Vdc, 36-72Vdc)
- * Excellent Line & Load Regulation
- * Low Output Ripple
- * 100 kHz Switching Frequency
- * 500 Vdc Output Isolation
- * Continuous Short Circuit Protected
- * Available in Chassis Mount

The D100 Series of DC/DC converters is available with single, dual, and triple outputs which are isolated from the input. They are enclosed in a six-sided metal case. Their small size, low output ripple, and excellent regulation characteristics make them ideally suited for applications that demand a high degree of performance. All models will tolerate a short circuit indefinitely.

ELECTRICAL SPECIFICATIONS

Voltage Accuracy	+/-1%	Output Trim (Single Output)	+/-10%
Line Regulation	+/- 1%	Input Filter	PI Network
Load Regulation	+/- 2%	Short Circuit Protection	Continuous
Output Ripple	< 100mVp-p	Switching Frequency	130 kHz
		Isolation	500 Vdc

* 18-36 Vdc input add suffix /A
 * 20-60 Vdc input add suffix /B
 * 36-72 Vdc input add suffix /C

GENERAL SPECIFICATIONS

Temp. Stability	+/-0.02%/°C	EMI/RFI.....	Six Sided Shield
Temp. (Operating, Case)	-25 to +85°C	Cooling	Convection or Forced Air
Temp. (Storage)	-40 to +125°C	Thermal Shut Down	100°C/+/- 5°C

* Industrial Operating Temp. Range (-40 to +85°C) add suffix -I
 * All models designed to meet UL 60950
 * For RoHS Compliant part, add suffix /Y

PHYSICAL SPECIFICATIONS

Dimensions	3.5 x 5.5 x 0.92 inches	Case Material	Black Coated Metal (With Non-Conductive Base Plate)
Weight	20.1 Oz		



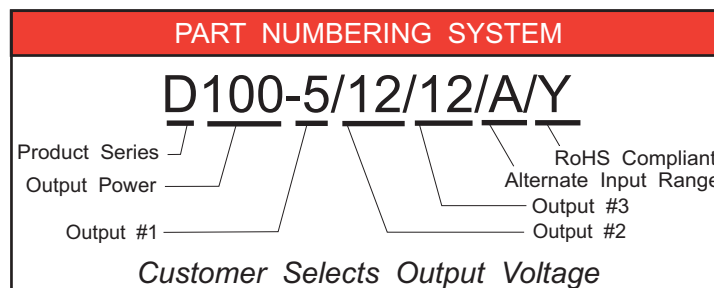
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REPRESENTATIVE MODEL LISTING								
MODEL NUMBER	INPUT SPECIFICATIONS		OUTPUT SPECIFICATION					
	INPUT VOLTAGE	INPUT CURRENT	OUTPUT #1		OUTPUT #2		OUTPUT #3	
			VOLTAGE	CURRENT	VOLTAGE	CURRENT	VOLTAGE	CURRENT
D100-5	10V - 20Vdc	9.8 A	+5 Vdc	20 A	-	-	-	-
D100-5/5	10V - 20Vdc	9.8 A	+5 Vdc	10 A	-5 Vdc	10 A	-	-
D100-6	10V - 20Vdc	9.8 A	+6 Vdc	16.6 A	-	-	-	-
D100-6/6	10 - 20Vdc	9.8 A	+6 Vdc	8.3 A	-6 Vdc	8.3 A	-	-
D100-12	10V - 20Vdc	9.71 A	+12 Vdc	8.3 A	-	-	-	-
D100-12/12	10V - 20Vdc	9.71 A	+12 Vdc	4.1 A	-12 Vdc	4.1 A	-	-
D100-15	10V - 20Vdc	9.71 A	+15 Vdc	6.6 A	-	-	-	-
D100-15/15	10V - 20Vdc	9.71 A	+15 Vdc	3.3 A	-15 Vdc	3.3 A	-	-
D100-12/5	10V - 20Vdc	9.78 A	+12 Vdc	4.1 A	-5 Vdc	10 A	-	-
D100-15/5	10V - 20Vdc	9.78 A	+15 Vdc	3.3 A	-5 Vdc	10 A	-	-
D100-24	10V - 20Vdc	9.68 A	+24 Vdc	4.1 A	-	-	-	-
D100-28	20V - 20Vdc	9.68 A	+28 Vdc	3.5 A	-	-	-	-
D100-5/12/12	10V - 20Vdc	9.7 A	+5 Vdc	10 A	+12 Vdc	2 A	-12 Vdc	2 A
D100-5/15/15	10V - 20Vdc	9.7 A	+5 Vdc	10 A	+15 Vdc	1.6 A	-15 Vdc	1.6 A
D100-12/5/5	10V - 20Vdc	9.7 A	+12 Vdc	4.1 A	+5 Vdc	5 A	-5 Vdc	5 A
D100-15/5/5	10V - 20Vdc	9.7 A	+15 Vdc	3.3 A	+5 Vdc	5 A	-5 Vdc	5 A

- * 18-36 Vdc input add suffix /A
- * 20-60 Vdc input add suffix /B
- * 36-72 Vdc input add suffix /C
- * RoHS Compliant add suffix /Y

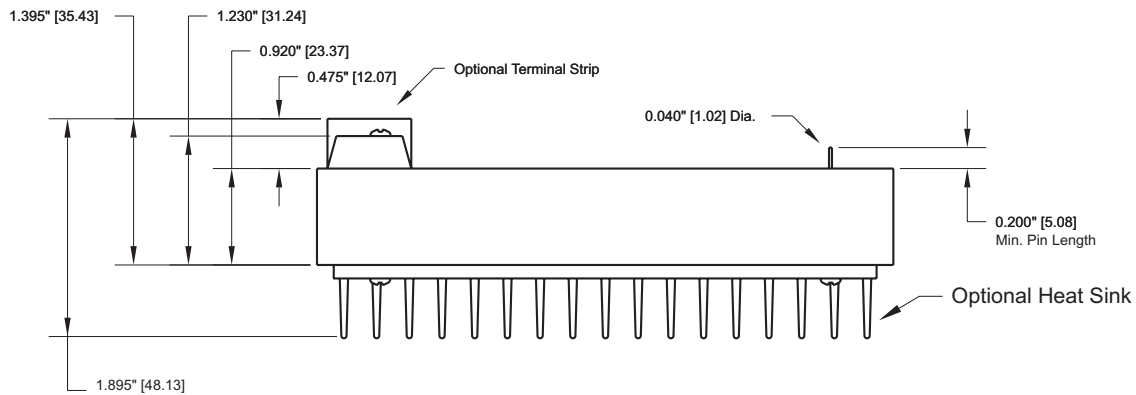
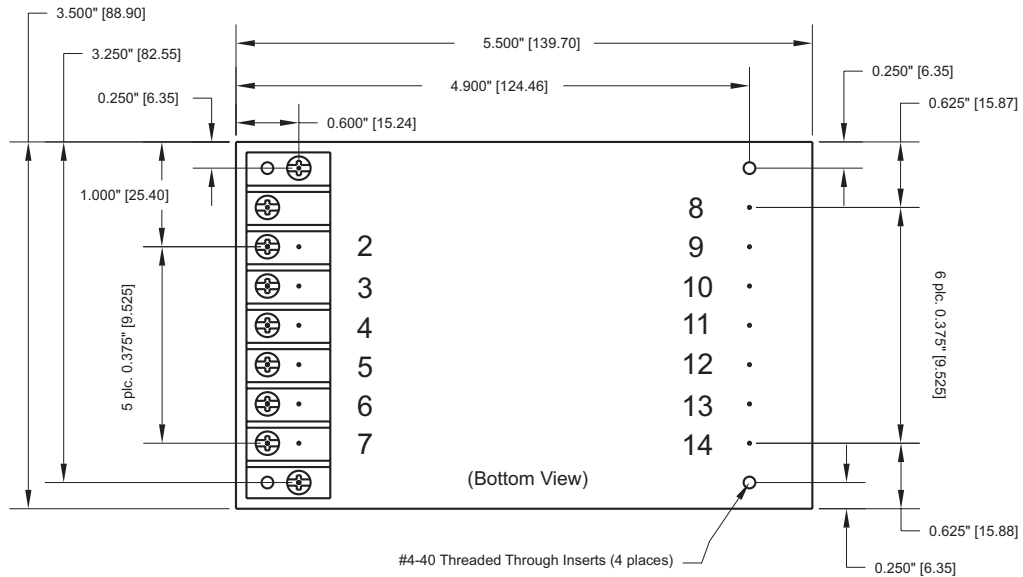




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Pin #	Single	Dual	Triple
2,3	- INPUT	- INPUT	- INPUT
4,5	+ INPUT	+ INPUT	+ INPUT
6	ON/OFF	ON/OFF	ON/OFF
7	CASE	CASE	CASE
8	- V out	- V1 Sense	- V1 Sense
9	- V out	- V1 out	- V1 out
10	+ V out	+ V1 out	+ V1 out
11	+ V out	+ V1 Sense	+ V1 Sense
12	- Sense	- V2 out	- V2 out
13	Trim	Trim	Com 2 & 3
14	+ Sense	+ V2 out	+ V3 out

Dimensions are in Inches
[Metric equivalents in brackets]