



American Power Design, Inc.

"The best high voltage design solution"

D150 SERIES 150 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
- * 130 kHz Switching Frequency
- * 500 Vdc Output Isolation
- * Continuous Short Circuit Protected
- * Available in Chassis Mount

The D150 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 such as telecommunications, process control equipment, and transportation. All models will tolerate a short circuit indefinitely.

ELECTRICAL SPECIFICATIONS

Voltage Accuracy	+/-1%	Output Trim (Single Output)	+/-10%
Line Regulation	+/- 0.2%	Input Filter	PI Network
Load Regulation	+/-1%	Short Circuit Protection	Continuous
Output Ripple	< 75mVp-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
Weight	20.1 Oz		(With Non-Conductive Base Plate)



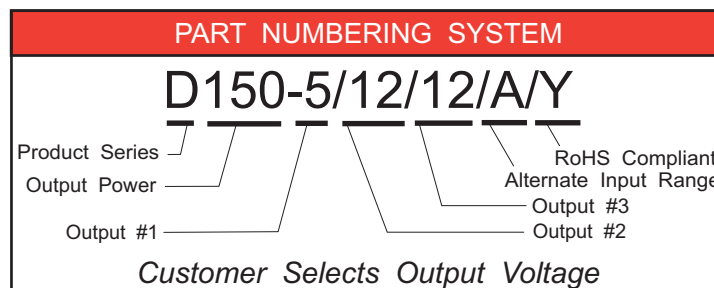
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REPRESENTATIVE MODEL LISTING								
MODEL NUMBER	INPUT SPECIFICATIONS		OUTPUT SPECIFICATION					
	INPUT VOLTAGE	INPUT CURRENT	OUTPUT #1		OUTPUT #2		OUTPUT #3	
			VOLTAGE	CURRENT	VOLTAGE	CURRENT	VOLTAGE	CURRENT
D150-5	10V - 20Vdc	10.4 A	5 Vdc	20 A	-	-	-	-
D150-5/5	10V - 20Vdc	10 A	+5 Vdc	10 A	-5 Vdc	10 A	-	-
D150-12	10V - 20Vdc	12.8 A	12 Vdc	10.4 A	-	-	-	-
D150-12/12	10V - 20Vdc	12.24 A	+12 Vdc	5.2 A	-12 Vdc	5.2 A	-	-
D150-15	10V - 20Vdc	12.8 A	15 Vdc	8.3 A	-	-	-	-
D150-15/15	10V - 20Vdc	12.21 A	+15 Vdc	4.15 A	-15 Vdc	4.15 A	-	-
D150-24	10V - 20Vdc	12.4 A	24 Vdc	5 A	-	-	-	-
D150-12/5	10V - 20Vdc	10 A	+12 Vdc	4.1 A	5 Vdc	10 A	-	-
D150-15/5	10V - 20Vdc	10 A	+15 Vdc	3.2 A	5 Vdc	10 A	-	-
D150-5/12/12	10V - 20Vdc	11.2 A	5 Vdc	12 A	+12 Vdc	3 A	-12Vdc	3 A
D150-5/15/15	10V - 20Vdc	11.2 A	5 Vdc	12 A	+15 Vdc	2.5 A	-15 Vdc	2.5 A
D150-5/A	18V - 36Vdc	7.4 A	5 Vdc	30 A	-	-	-	-
D150-5/5/A	18V - 36Vdc	7.4 A	+5 Vdc	15 A	-5 Vdc	15A	-	-
D150-12/A	18V - 36Vdc	8.8 A	12 Vdc	15 A	-	-	-	-
D150-12/12/A	18V - 36Vdc	8.8 A	+12 Vdc	7.5 A	-12 Vdc	7.5 A	-	-
D150-15/A	18V - 36Vdc	8.8 A	15 Vdc	12 A	-	-	-	-
D150-15/15/A	18V - 36Vdc	8.8 A	+15 Vdc	6 A	-15 Vdc	6 A	-	-
D150-24/A	18V - 36Vdc	9.5 A	24 Vdc	8 A	-	-	-	-
D150-12/5/A	18V - 36Vdc	7.3 A	+12 Vdc	6.15 A	5 Vdc	15 A	-	-
D150-15/5/A	18V - 36Vdc	7.3 A	+15 Vdc	4.8 A	5 Vdc	15 A	-	-
D150-5/12/12/A	18V - 36Vdc	8.6 A	5 Vdc	15 A	+12 Vdc	4 A	-12Vdc	4 A
D150-5/15/15/A	18V - 36Vdc	8.6 A	5Vdc	15 A	+15 Vdc	3.3 A	-15 Vdc	3.3 A
D150-5/C	36V - 72Vdc	3.7 A	5 Vdc	30 A	-	-	-	-
D150-5/5/C	36V - 72Vdc	3.7 A	+5 Vdc	15 A	-5 Vdc	15A	-	-
D150-12/C	36V - 72Vdc	4.4 A	12 Vdc	15 A	-	-	-	-
D150-12/12/C	36V - 72Vdc	4.4 A	+12 Vdc	7.5 A	-12 Vdc	7.5 A	-	-
D150-15/C	36V - 72Vdc	4.4 A	15 Vdc	12 A	-	-	-	-
D150-15/15/C	36V - 72Vdc	4.4 A	+15 Vdc	6 A	-15 Vdc	6 A	-	-
D150-24/C	36V - 72Vdc	4.7 A	24 Vdc	8 A	-	-	-	-
D150-12/5/C	36V - 72Vdc	4.4 A	+12 Vdc	7.5 A	5 Vdc	15 A	-	-
D150-15/5/C	36V - 72Vdc	4.4 A	+15 Vdc	6 A	5 Vdc	15 A	-	-
D150-5/12/12/C	36V - 72Vdc	4.6 A	5 Vdc	15 A	+12 Vdc	4 A	-12Vdc	4 A
D150-5/15/15/C	36V - 72Vdc	4.6 A	5 Vdc	15 A	+15 Vdc	3.3 A	-15 Vdc	3.3 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

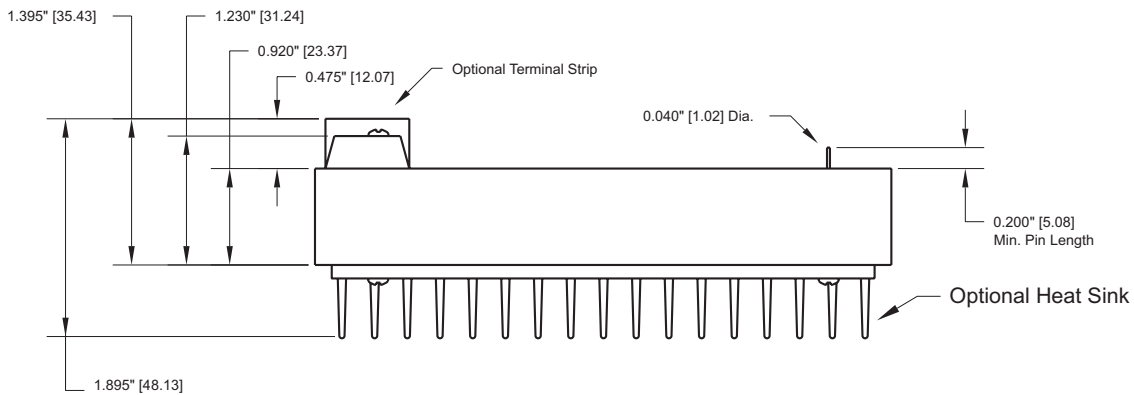
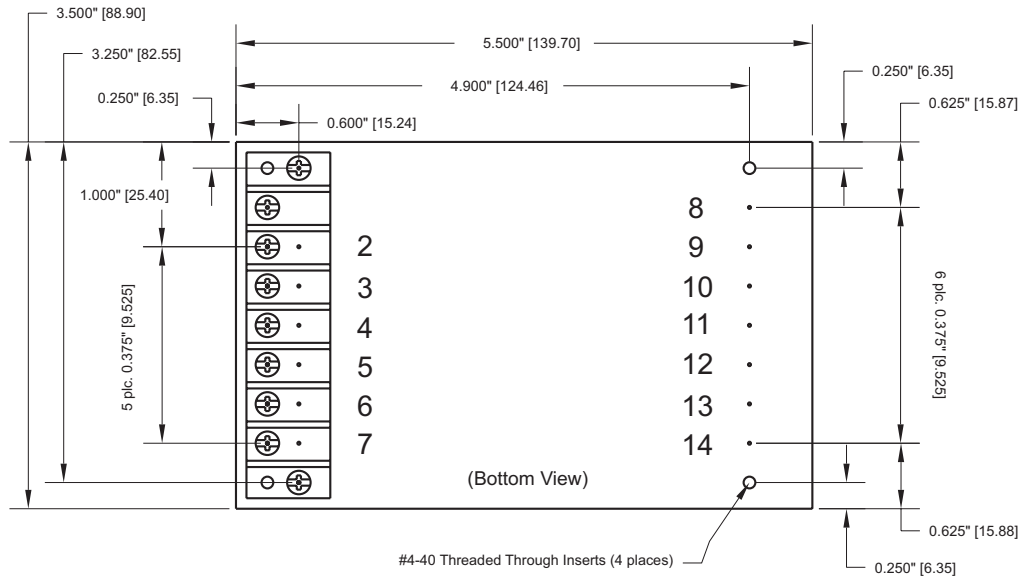




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Pin #	Single	Dual	Triple
2,3	- INPUT	- INPUT	- INPUT
4,5	+ INPUT	+ INPUT	+ INPUT
6	ON/OFF	ON/OFF	ON/OFF
7	CASE	CASE	CASE
8	- V out	- V1 Sense	- V1 Sense
9	- V out	- V1 out	- V1 out
10	+ V out	+ V1 out	+ V1 out
11	+ V out	+ V1 Sense	+ V1 Sense
12	- 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]