

Industrial DC-DC Converters

10-15 Watts WD Series



THE **XP**ERTS IN POWER

- 2:1 Input Range
-
- Isolated Outputs
-
- Efficiency to 82%
-
- 200 kHz Switching Frequency
-
- Input π Filter
-
- Fully Regulated Outputs
-
- Six-sided Shield

Specification

Input

- Input Voltage Range • 5 V (4.7-9.0 VDC)
12 V (9-18 VDC)
24 V (18-36 VDC)
48 V (36-72 VDC)
- Input Filter • π Network

Output

- Output Power • 8 Watts for 5 V input version
10 Watts for 12 V input version
15 Watts for 24 & 48 V input versions
(optional 10 Watts)
- Voltage Accuracy • $\pm 1\%$ max
- Line Regulation • $\pm 0.2\%$ max
- Load Regulation • $\pm 1\%$ max for a 75% load change
- Ripple & Noise • 100 mV pK-pK max
(20 MHz bandwidth)
- Temperature Coefficient • $\pm 0.02\%/^{\circ}\text{C}$ max
- Short Circuit Protection • Continuous

General

- Switching Frequency • 200 kHz typical
- Efficiency • See Table
- Isolation • 500 V DC input to output
(1000 M Ω /80 pF)
- Dimensions • 2.0" x 1.0" x 0.4"
- Weight • 35 g
- MTBF • 950,000 hours to MIL-STD-217F

Environmental

- Operating Temperature • -25°C to $+71^{\circ}\text{C}$
- Storage Temperature • -40°C to $+100^{\circ}\text{C}$

Safety

- Safety Approvals • UL1950 for LU versions only

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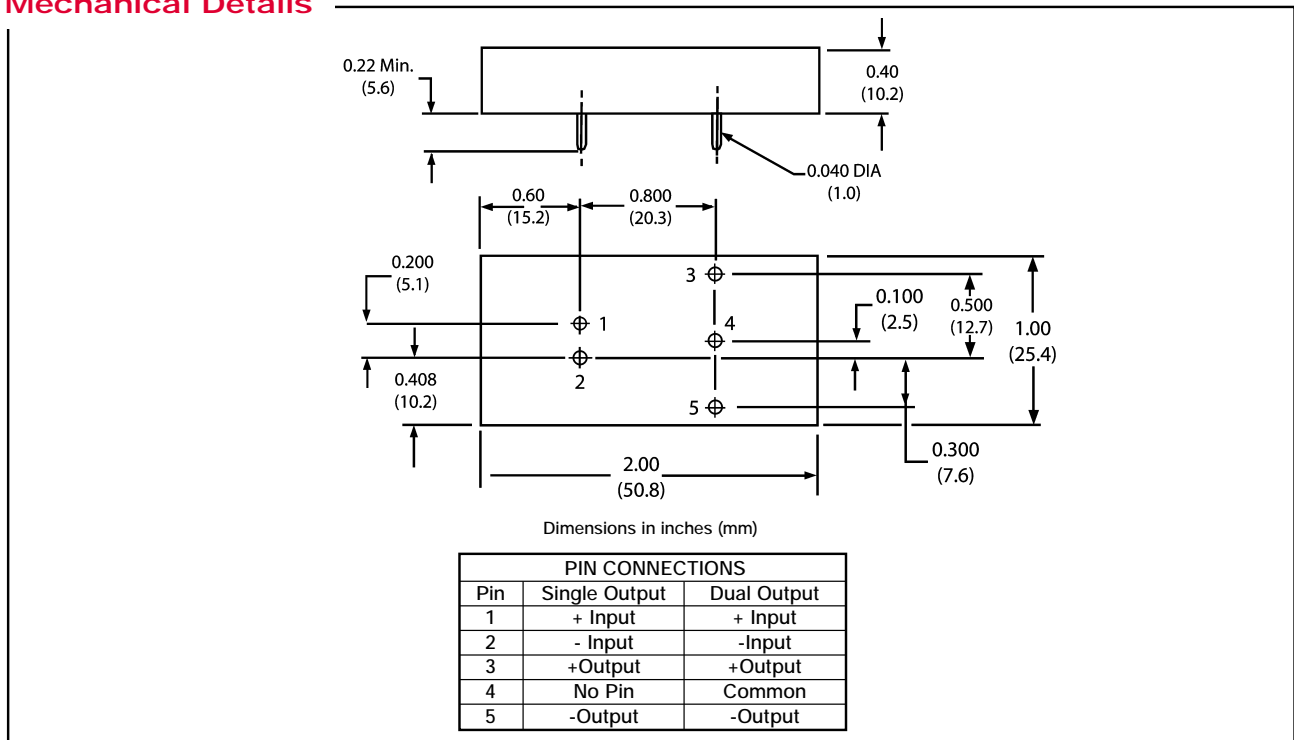
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OUTPUT VOLTAGE & CURRENT RATINGS						WD
Input Voltage ⁽¹⁾	Output Voltage	Output Current	Input Current ⁽⁴⁾		Efficiency	Model Number ^(2,3)
			No Load	Full Load		
4.7-9.0 VDC	5.0 VDC	1600 mA	15 mA	2130 mA	75%	WD501
	12.0 VDC	666 mA	15 mA	2100 mA	76%	WD502
	15.0 VDC	533 mA	15 mA	2100 mA	76%	WD503
	±12.0 VDC	±333 mA	15 mA	2100 mA	76%	WD504
	±15.0 VDC	±266 mA	15 mA	2100 mA	76%	WD505
	±5.0 VDC	±800 mA	15 mA	2100 mA	76%	WD506
9-18 VDC	3.3 VDC	3000 mA	20 mA	1056 mA	76%	WD100
	5.0 VDC	2000 mA	30 mA	1100 mA	76%	WD101
	12.0 VDC	830 mA	30 mA	1065 mA	78%	WD102
	15.0 VDC	666 mA	30 mA	1065 mA	78%	WD103
	±12.0 VDC	±415 mA	40 mA	1065 mA	78%	WD104
	±15.0 VDC	±333 mA	40 mA	1065 mA	78%	WD105
	±5.0 VDC	±1000 mA	40 mA	1065 mA	78%	WD106
18-36 VDC	3.3 VDC	3000 mA	20 mA	543 mA	76%	WD200
	5.0 VDC	3000 mA	20 mA	800 mA	78%	WD201
	12.0 VDC	1250 mA	20 mA	780 mA	80%	WD202
	15.0 VDC	1000 mA	20 mA	780 mA	80%	WD203
	±12.0 VDC	±625 mA	30 mA	780 mA	80%	WD204
	±15.0 VDC	±500 mA	30 mA	780 mA	80%	WD205
	±5.0 VDC	±1500 mA	30 mA	780 mA	80%	WD206
36-72 VDC	3.3 VDC	3000 mA	15 mA	272 mA	76%	WD300
	5.0 VDC	3000 mA	10 mA	390 mA	80%	WD301
	12.0 VDC	1250 mA	10 mA	380 mA	82%	WD302
	15.0 VDC	1000 mA	10 mA	380 mA	82%	WD303
	±12.0 VDC	±625 mA	15 mA	380 mA	82%	WD304
	±15.0 VDC	±500 mA	15 mA	380 mA	82%	WD305
	±5.0 VDC	±1500 mA	15 mA	380 mA	82%	WD306

Notes

1. Nominal input voltage 5, 12, 24 or 48 VDC.
2. For optional 10 W version: Add Suffix 'L' to WD2xx and WD3xx, except models WD200 and WD300.
3. UL1950 approvals available on 10 W models only. Add suffix 'LU' to models WD1xx, WD2xx or WD3xx, not available on WD5xx series.
4. Input current is at nominal input voltage.

Mechanical Details



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