

Industrial DC-DC Converters

15 Watts WC Series



THE **XP**ERTS IN POWER

- 2:1 Input Range
-
- Isolated Outputs
-
- Efficiency to 86%
-
- Fully Regulated Outputs
-
- Input π Filter
-
- Six-sided Shield

Specification

Input

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

Output

- | | |
|--------------------------|--|
| Output Power | • 15 Watts |
| Output Voltage | • 5, 12 & 15 V single & dual output models |
| Voltage Accuracy | • $\pm 1\%$ max |
| Line Regulation | • $\pm 0.2\%$ max |
| Load Regulation | • $\pm 1\%$ max for 75% load change |
| Voltage Balance | • $\pm 1\%$ max (dual output at full load) |
| Ripple & Noise | • 75 mV pk-pk (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 VDC input to output (1000 M Ω /80 pF) |
| Dimensions | • 2.0" x 2.0" x 0.4" |
| Weight | • 80 g |

Environmental

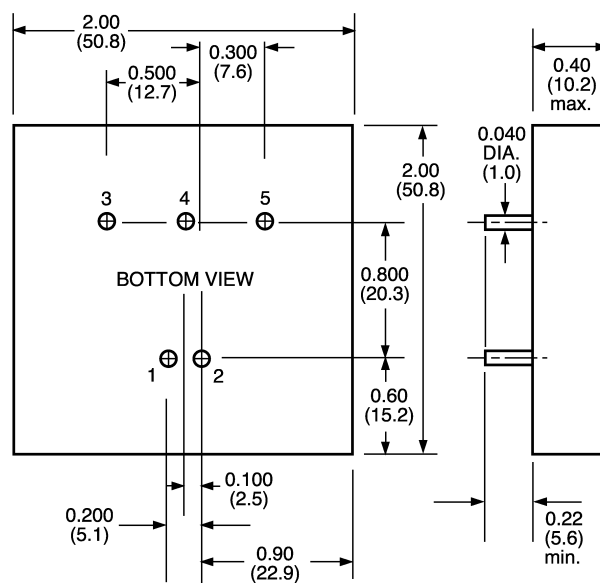
- | | |
|-----------------------|---|
| Operating Temperature | • -25 $^{\circ}\text{C}$ to +71 $^{\circ}\text{C}$ |
| Storage Temperature | • -40 $^{\circ}\text{C}$ to +100 $^{\circ}\text{C}$ |

OUTPUT VOLTAGE & CURRENT RATINGS						WC
Input Voltage ⁽¹⁾	Output Voltage	Output Current	Input Current ⁽²⁾		Efficiency	Model Number
			No Load	Full Load		
9-18 VDC	5 VDC	3000 mA	30 mA	1660 mA	75%	WC101
	12 VDC	1250 mA	30 mA	1625 mA	78%	WC102
	15 VDC	1000 mA	30 mA	1625 mA	78%	WC103
	±5 VDC	±1500 mA	35 mA	1620 mA	77%	WC104
	±12 VDC	±625 mA	35 mA	1620 mA	77%	WC105
	±15 VDC	±500 mA	35 mA	1620 mA	77%	WC106
18-36 VDC	5 VDC	3000 mA	15 mA	812 mA	78%	WC201
	12 VDC	1250 mA	20 mA	772 mA	81%	WC202
	15 VDC	1000 mA	20 mA	772 mA	81%	WC203
	±5 VDC	±1500 mA	25 mA	780 mA	80%	WC204
	±12 VDC	±500 mA	25 mA	780 mA	80%	WC205
	±15 VDC	±625 mA	25 mA	780 mA	80%	WC206
36-72 VDC	5 VDC	3000 mA	10 mA	390 mA	80%	WC301
	12 VDC	1250 mA	15 mA	381 mA	82%	WC302
	15 VDC	1000 mA	15 mA	381 mA	82%	WC303
	±5 VDC	±1500 mA	20 mA	386 mA	81%	WC304
	±12 VDC	±625 mA	20 mA	386 mA	81%	WC305
	±15 VDC	±500 mA	20 mA	386 mA	81%	WC306

Notes

1. Nominal input voltage is 12 VDC for WC1XX models, 24 VDC for WC2XX and 48 VDC for WC3XX models.
2. Input current is at nominal input voltage.

Mechanical Details



Dimensions in inches (mm)

PIN CONNECTIONS		
Pin	Single Output	Dual Output
1	+ Input	+ Input
2	- Input	-Input
3	+Output	+Output
4	No Pin	Common
5	-Output	-Output