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WR.qxd 24/6/03 10:56 am Page 1

DC/DC Converters

7.5 Watts
WR Series

XPiQ inc.
Intelligent Design Quality Product

- 2:1 Input Range
- 1500 VDC Isolation
- Efficiency to 83%
- Input π Filter
- Fully Regulated Outputs
- 24 Pin-Dip Package

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	•	*7.5 Watts*
Output Voltage	•	*5, 12 & 15 V single & dual output models*
Voltage Accuracy	•	*±2.0% max*
Line Regulation	•	*±0.2% max, for 90% load change*
Load Regulation	•	*±0.5% max single output models, ±1.0% max dual output models, for 75% load change*
Ripple & Noise	•	*100 mV peak to peak max (20 MHz bandwidth)*
Temperature Coefficient	•	*±0.05%/°C max*
Short Circuit Protection	•	*Continuous*

General

Switching Frequency	•	*200 kHz typical*
Efficiency	•	*See Table*
Isolation	•	*1500 VDC min input to output (1000 MΩ)*
Dimensions	•	*0.80” x 1.25” x 0.40”*
Weight	•	*18 g*

Environmental

Operating Temperature	•	*-25 °C to +71 °C*
Case Temperature	•	*+100 °C max*
Storage Temperature	•	*-40 °C to +100 °C*

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WR.qxd 24/6/03 10:56 am Page 2

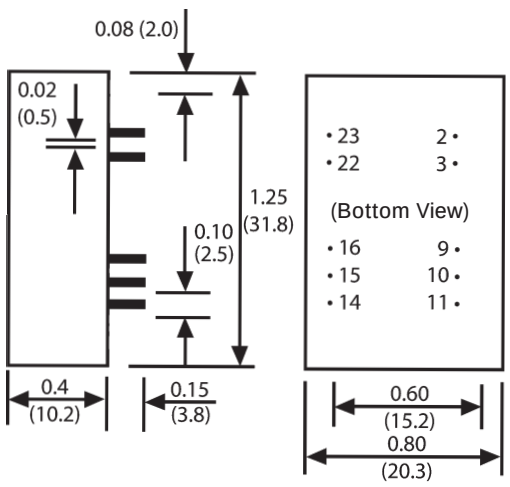
OUTPUT VOLTAGE & CURRENT RATINGS — WR

Input Voltage[1]	Output Voltage	Output Current	Input Current[2] No Load	Input Current[2] Full Load	Efficiency	Model Number
9-18 VDC	5 VDC	1500 mA	25 mA	801 mA	78%	**WR201**
	12 VDC	625 mA	25 mA	762 mA	82%	**WR202**
	15 VDC	500 mA	25 mA	762 mA	82%	WR203
	±5 VDC	±750 mA	30 mA	791 mA	79%	WR204
	±12 VDC	±310 mA	30 mA	753 mA	83%	**WR205**
	±15 VDC	±250 mA	30 mA	753 mA	83%	WR206
18-36 VDC	5 VDC	1500 mA	20 mA	396 mA	79%	**WR301**
	12 VDC	625 mA	20 mA	381 mA	82%	**WR302**
	15 VDC	500 mA	20 mA	381 mA	82%	WR303
	±5 VDC	±750 mA	25 mA	386 mA	81%	WR304
	±12 VDC	±310 mA	25 mA	377 mA	83%	**WR305**
	±15 VDC	±250 mA	25 mA	377 mA	83%	WR306
36-72 VDC	5 VDC	1500 mA	10 mA	195 mA	80%	**WR401**
	12 VDC	625 mA	10 mA	190 mA	82%	**WR402**
	15 VDC	500 mA	10 mA	190 mA	82%	WR403
	±5 VDC	±750 mA	15 mA	193 mA	81%	WR404
	±12 VDC	±310 mA	15 mA	188 mA	83%	**WR405**
	±15 VDC	±250 mA	15 mA	188 mA	83%	WR406

Notes

1. *Nominal input voltage is 12 VDC for WR2XX models, 24 VDC for WR3XX models and 48 VDC for WR4XX models.*
2. *Input current is at nominal input voltage.*
3. *Part numbers in bold are standard stock models, others are build to order.*

Mechanical Details



Dimensions in inches (mm).

PIN CONNECTIONS		
Pin	Single Output	Dual Output
2	– V Input	– V Input
3	– V Input	– V Input
9	N/C	Common
10	N/C	N/C
11	N/C	– V Output
14	+ V Output	+ V Output
15	N/C	N/C
16	– V Output	Common
22	+ V Input	+ V Input
23	+ V Input	+ V Input

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