



**TRI-MAG, Inc.**

® *your* **POWER Specialists**

1601 N. CLANCY CT. • VISALIA, CA 93291  
(559) 651-2222 • FAX (559) 651-0188  
<http://www.tri-mag.com>  
<http://eemonline.com/tri-mag>  
tri-mag@worldnet.att.net

## 977ZW SERIES

### 25 Watt

DC-DC CONVERTER  
2:1 Wide Range Input

#### FEATURES

- PCB Mountable
- High Stable Regulated Output
- Thermally Conductive Encapsulant
- 100% Burn-In And Triple Tested
- MTBF > 400,000 Hours

#### APPLICATIONS

- Local Area Network
- Isolation Devices
- Telecommunications
- Industrial And Testing Equipment
- Battery-Powered Equipment
- Medical Equipment
- Distributed Power Equipment



#### ELECTRICAL SPECIFICATIONS

Input Voltage Range	2:1
Output voltage Accuracy	±2%
Load Regulation	Single ±1%, Dual ±2.5%
Line Regulation	±1%
Ripple & Noise	50mV p-p for 5V, 1% for other voltages
Short Circuit Protection	Fold-Back
Overload Protection	Build-in

#### GENERAL SPECIFICATIONS

Efficiency (at full load)	70% typical
Isolation Voltage	500VDC
Operating Frequency	160KHz min.
Operating Temperature	-25°C to +70°C
Storage Temperature	-40°C to +100°C
Isolation Resistance	10 <sup>9</sup> Ohms, min.
Reflected Ripple Current	20mA, typical
Weight	12 Oz. (340 grams)
Case Material	Black coated with non-conductive metal base



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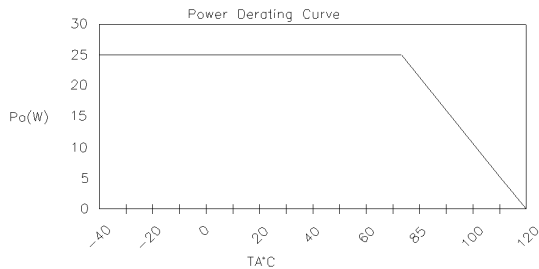
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**977ZW SERIES SINGLE AND DUAL OUTPUT SPECIFICATIONS**

Model-Type	Input Voltage (Vdc)	Input Current mA (typ)		Output Voltage (Vdc)	Output Current mA (max)
		No Load	Full Load		
977ZW1203S	9-18 (12)	32	1964	3.3	6000
977ZW1205S		42	2540	5	5000
977ZW1212S		42	2442	12	2100
977ZW1215S		42	2398	15	1650
977ZW1205D		42	2540	±5	±2500
977ZW1212D		42	2442	±12	±1050
977ZW1215D		42	2413	±15	±830
977ZW2403S	9-36 (24)	30	982	3.3	6000
977ZW2405S		36	1240	5	5000
977ZW2412S		36	1193	12	2100
977ZW2415S		36	1172	15	1650
977ZW2405D		36	1255	±5	±2500
977ZW2412D		36	1290	±12	±1050
977ZW2415D		36	1193	±15	±830
977ZW4803S	20-72 (48)	28	490	3.3	6000
977ZW4805S		30	620	5	5000
977ZW4812S		30	597	12	2100
977ZW4815S		30	586	15	1650
977ZW4805D		30	620	±5	±2500
977ZW4812D		30	597	±12	±1050
977ZW4815D		30	589	±15	±830

S: Single Output      D: Dual Output



**Pin Connections**

Pin	Single	Dual	Triple
1	+ Input	+ Input	+ Input
2	- Input	- Input	- Input
3	On/Off		
4	Trim	Trim	- Output
5	- Output	- Output	Common
6	+ Output	Common	+5v Output
7	NC	+ Output	+ Output



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**977ZW SERIES TRIPLE OUTPUT SPECIFICATIONS**

Model-Type	Input Voltage (Vdc)	Input Current mA (typ)		Output Voltage (Vdc)	Output Current mA (max)
		No Load	Full Load		
977ZW12T01	9-18 (12)	32	2535	+5 +12 -12	3500 310 310
977ZW12T02		32	2540	+5 +15 -15	3500 250 250
977ZW24T01	18-36 (24)	30	1252	+5 +12 -12	3500 310 310
977ZW24T02		30	1255	+5 +15 -15	3500 250 250
977ZW48T01	36-72 (48)	28	619	+5 +12 -12	3500 310 310
977ZW48T02		28	620	+5 +15 -15	3500 250 250

