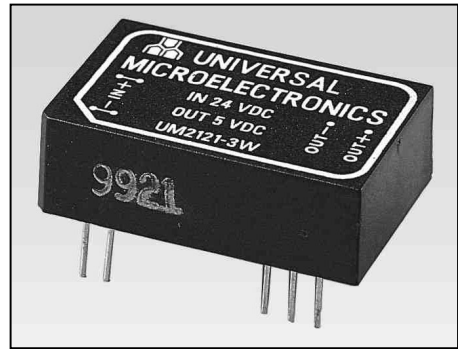


# UM2100-3W SERIES

## 3 Watt DC-DC Converters

- ◆ 24 Pin Dip Package
- ◆ High Efficiency (up to 80%)
- ◆ Regulated Outputs
- ◆ Pi Input Filter
- ◆ 3000 VDC Isolation
- ◆ Continuous Short Circuit Protection
- ◆ Conductive EMI Meets CISPR22 Class A



### SPECIFICATIONS

All specifications are typical at nominal line, full load and 25°C unless otherwise noted.

### INPUT SPECIFICATIONS

Input Voltage Range, 12V .....	9-18V
24V .....	18-36V
48V .....	36-72V
Input Filter .....	Pi Type

### OUTPUT SPECIFICATIONS

Voltage Accuracy .....	±2.0% max.
Voltage Balance (Dual) <sup>1</sup> .....	±2.0% max.
Ripple and Noise, 20MHz BW, 5V .....	100mVp-p max.
12/15V .....	1% p-p max.
Temperature Coefficient .....	±0.05%/°C
Short Circuit Protection .....	Continuous
Line Regulation <sup>2</sup> .....	±0.5%
Load Regulation <sup>3</sup> .....	±0.5%

### GENERAL SPECIFICATIONS

Efficiency .....	See Table
Isolation Voltage .....	3000 VDC min.
Isolation Resistance .....	10 <sup>8</sup> Ohms min.
Switching Frequency .....	100 KHz min. (Depending on Loading)
Operating Temperature Range, Ambient, None Derating .....	-25°C to +71°C
Cooling .....	Free Air Convection
Storage Temperature Range .....	-40°C to +100°C
Dimensions CASE A .....	1.25*0.8*0.4 inches (31.8*20.3*10.2mm)
Case Material, Standard Models .....	Non-Conductive Black Plastic UL94V-0
Weight .....	15g

### NOTES

1. For common output models.
2. Measured from high line to low line.
3. Measured from full load to 10% load.

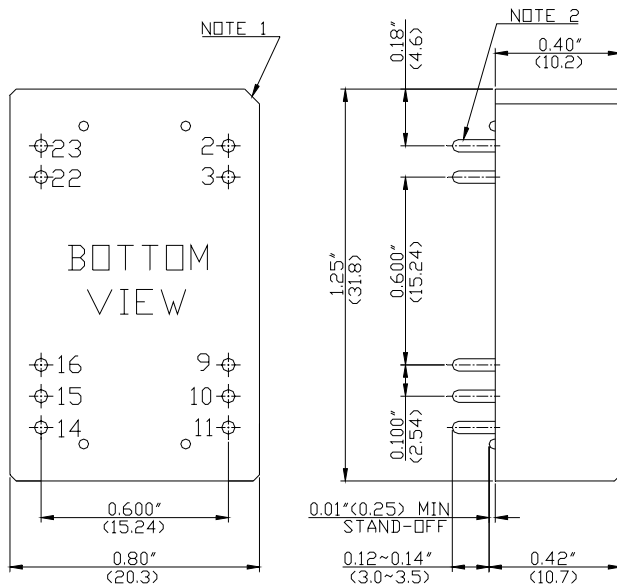
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TORRANCE, CA 90505  
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MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	INPUT CURRENT		CASE	EFFICIENCY
				NO LOAD	FULL LOAD		
UM2111-3W	12 VDC	5 VDC	600 mA	50 mA	343 mA	A	73%
UM2112-3W		12 VDC	250 mA	50 mA	334 mA		75%
UM2113-3W		15 VDC	200 mA	50 mA	334 mA		75%
UM2114C-3W		± 5 VDC	± 300 mA	50 mA	343 mA		73%
UM2115C-3W		± 12 VDC	± 125 mA	70 mA	338 mA		74%
UM2116C-3W		± 15 VDC	± 100 mA	80 mA	338 mA		74%
UM2117-3W		9 VDC	333 mA	50 mA	333 mA		75%
UM2121-3W	24 VDC	5 VDC	600 mA	30 mA	167 mA	A	75%
UM2122-3W		12 VDC	250 mA	30 mA	161 mA		78%
UM2123-3W		15 VDC	200 mA	30 mA	161 mA		78%
UM2124C-3W		± 5 VDC	± 300 mA	35 mA	167 mA		75%
UM2125C-3W		± 12 VDC	± 125 mA	35 mA	163 mA		77%
UM2126C-3W		± 15 VDC	± 100 mA	35 mA	163 mA		77%
UM2127-3W		9 VDC	333 mA	30 mA	160 mA		78%
UM2131-3W	48 VDC	5 VDC	600 mA	15 mA	84 mA	A	75%
UM2132-3W		12 VDC	250 mA	15 mA	79 mA		80%
UM2133-3W		15 VDC	200 mA	15 mA	79 mA		80%
UM2134C-3W		± 5 VDC	± 300 mA	20 mA	84 mA		75%
UM2135C-3W		± 12 VDC	± 125 mA	20 mA	81 mA		78%
UM2136C-3W		± 15 VDC	± 100 mA	20 mA	81 mA		78%
UM2137-3W		9 VDC	333 mA	15 mA	78 mA		80%

CASE A



Pin Connections		
Pin	Single Output	Dual Output
2	-V Input	-V Input
3	-V Input	-V Input
9	NC*	Common
10	NC*	NC*
11	NC*	-V Output
14	+V Output	+V Output
15	NC*	NC*
16	-V Output	Common
22	+V Input	+V Input
23	+V Input	+V Input

\* NC (No Connection)

All dimensions in inches (mm).

Note 1: Cut-corner marking for Pin No.1

Note 2: Pin size is 0.020±0.005 inches (0.5mm) dia.

or 0.020\*0.012 inch

Note 3: Tolerance .xx =±0.04"

.xxx=±0.010"



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