

Green Product
RoHS

200 Watt DC/DC Converters

- ◆ 2:1 Input Range
- ◆ Efficiency to 80%
- ◆ 350 KHz Switching Frequency
- ◆ Short Circuit Protection
- ◆ Remote on/off Control
- ◆ Internal Soft Start
- ◆ 200W Isolation Output
- ◆ High-Density
- ◆ RoHS Compliant



SPECIFICATIONS

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

INPUT SPECIFICATIONS

Input Voltage Range, 48V	36-75V
Input Filter	Pi Network

OUTPUT SPECIFICATIONS

Voltage Accuracy	±1% max.
External Trim Adj. Range	±10%
Transient Response ¹ , ±1% Error Band	<500u sec.
Ripple, 20MHz BW ²	
Vout: 5V	160mV p-p max.
	60mV rms max.
Short Circuit Protection	Continuous
Line Regulation ³	±0.2% max.
Load Regulation ⁴	±0.5% max.

GENERAL SPECIFICATIONS

Efficiency	See Table
Isolation Voltage	500Vdc
Isolation Resistance	10 ⁸ ohms min.
Switching Frequency	350KHz typ.
Baseplate Operating Temperature Range	
None Derating	-25°C to +85°C
Cooling	Free Air Convection
Storage Temperature Range	-40°C to +105°C
Dimensions	2.4*4.6*0.5 inches
	(61.0*116.84*12.7 mm)

NOTE

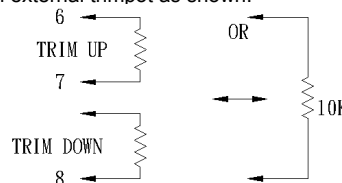
1. $di/dt = 0.1A/\mu s$, $V_{in} = 48V$, $T_c = 25^\circ C$; load change = 0.5 lo max. to 0.75 lo max. and 0.75 lo max. to 0.5 lo max.
2. Measured with 10uF tantalum capacitor and 0.1uF & 1uF ceramic capacitor across output.
3. Measured from high line to low line.
4. Measured from full load to 1/4 load.
5. Maximum capacitive load across the output ports should not over following indicated values.
6. This converter required a minimum 10% loading on the output to maintain specified regulation. Operation under no-load condition will not damage these devices, However they may not meet all listed specification.
7. Standard product is active low, active high remote on/off option is available, to order suffix a "H" to the model number e.g. UM3211H.
8. Recommended to add electronic capacitor 10uF/100V at the input terminal.

STANDARD REMOTE ON/OFF CONTROL

Logic Compatibility.....	CMOS or Open Collector TTL
Ec-OFF	> +2.5 VDC or Open Circuit
Ec-ON	< 0.8 VDC
Control Common	Referenced to Input Minus

EXTERNAL OUTPUT TRIMMING

Output may optionally be externally trimmed ($\pm 10\%$) with a fixed resistor or an external trimpot as shown.



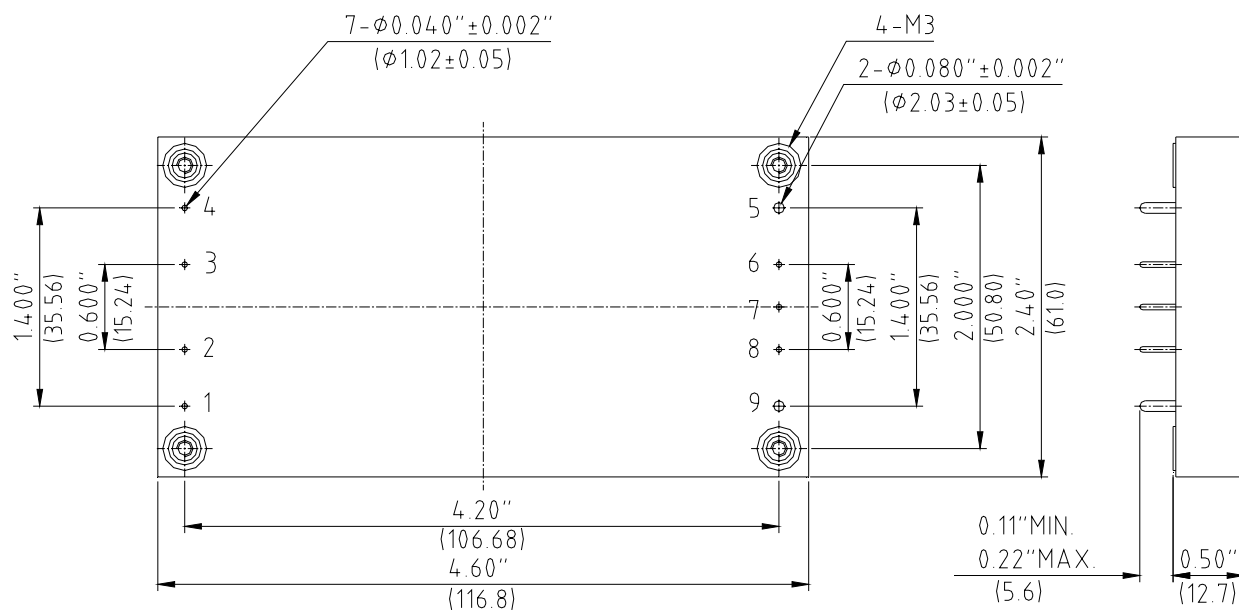
UNIVERSAL MICROELECTRONICS

3,27TH RD., TAICHUNG INDUSTRIAL PARK,
TAICHUNG, TAIWAN, R.O.C.
TEL: 886-4-23590096 FAX: 886-4-23590129

MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	% EFF
UM3211	48 VDC	5 VDC	40 A	80

NOTE: Other output voltage can be supported upon request.

MODEL NUMBER	UM3211
MAXIMUM ⁵ CAPACITIVE LOAD (uF)	2200



All dimensions in inches(mm)

Tolerance .xx =±0.04

.xxx =±0.010

Pin Connections ¹	
Pin	Function
1	+Vin
2	On/Off
3	N/A
4	-Vin
5	-Vout
6	-Sense
7	Trim
8	+Sense
9	+Vout

NOTE:

1. If remote sensing not utilized, output sense pin must be jumpered to respective output power pins, for normal operation connect Pin NO.5 to Pin NO.6 and Pin NO.8 to Pin NO.9.



**UNIVERSAL
MICROELECTRONICS**

3,27TH RD., TAICHUNG INDUSTRIAL PARK,
TAICHUNG, TAIWAN, R.O.C.
TEL: 886-4-23590096 FAX: 886-4-23590129