UM3200 SERIES

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)

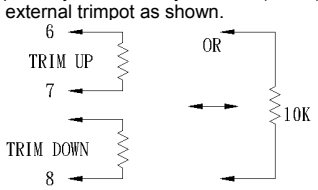
NOTE

1. di/dt= 0.1A/1uS, Vin=48V,Tc=25°C; load change =0.5 Io max. to 0.75 Io max. and 0.75 Io max. to 0.5 Io 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 (±10%) with a fixed resistor or an external trimpot as shown.



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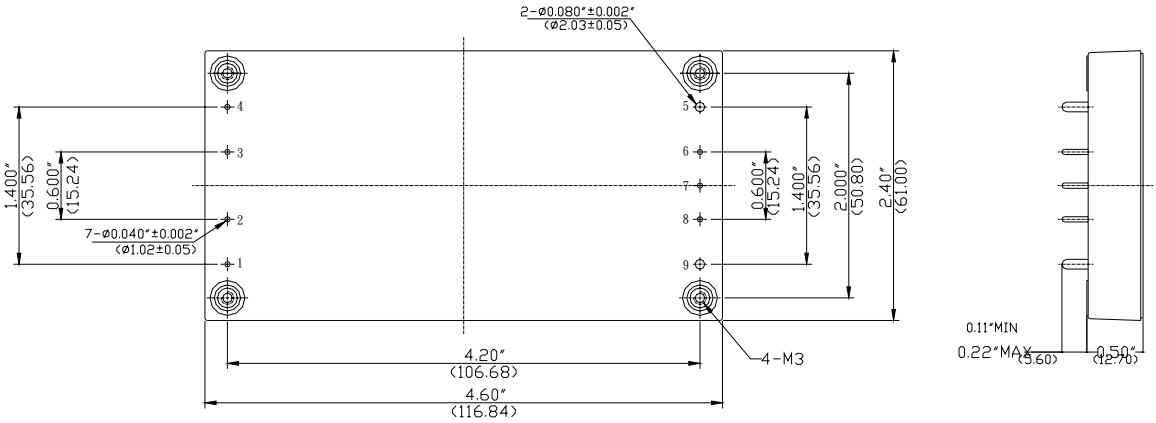
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	% EFF
UM3211	48 VDC	5 VDC	40 A	80

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.

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