Specifications

(typical at T_{BP} = 25°C, nominal line and 75% load, unless otherwise specified)

INPUT SPECIFICATIONS

Parameter	Min	Typ	Max	Unit	Notes
AC line input		85 – 264 [1]		V_{AC}	No strapping; no damage below low line
		47 – 440		Hz	
Inrush current		<40A at peak line (264V_{RMS})			

[1] Dependent upon input range of compatible DC-DC converter.

OUTPUT SPECIFICATIONS

Parameter	Min	Typ	Max	Unit	Notes
Output voltage		120 – 373		V_{DC}	Peak of AC line
Output power		250		W	Delivered to converter(s)
Hold-up time		Application specific			A function of external capacitance and power
Efficiency		97%		%	

SAFETY SPECIFICATIONS

Parameter	Min	Typ	Max	Unit	Notes
Dielectric withstand					
Input to output		None			Provided by DC-DC converter
Input/output to baseplate		1,500		V_{RMS}	

AGENCY APPROVALS

Safety Standards	Agency Markings	Notes
Conducted EMI/RFI	VDE 0871/FCC Part 15, Class A EN55022, Class A	With compatible DC-DC converter modules External 0.47µF capacitor required
UL1950, CSA 22.2-950, EN60950		

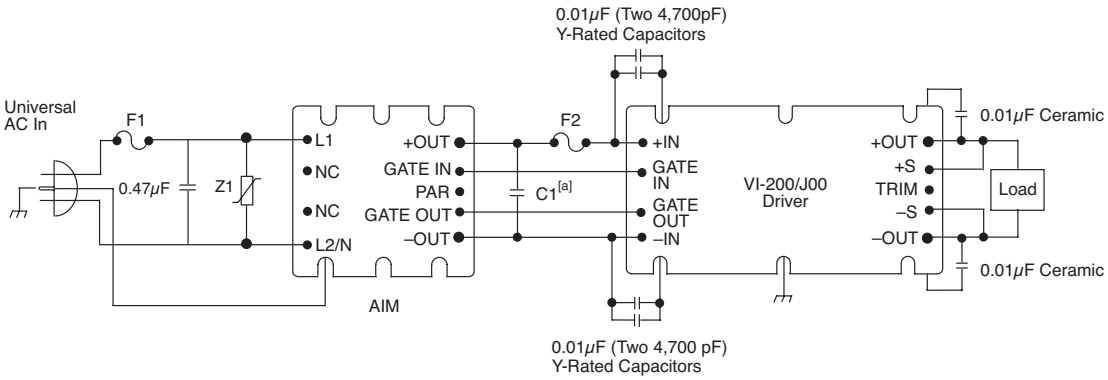
GENERAL SPECIFICATIONS

Parameter	Min	Typ	Max	Unit	Notes
Size		2.28" x 2.4" x 0.5" (57,9 x 61,0 x 12,7)		in (mm)	Mega Module, SlimMod and FinMod packages available
Weight		3.0 (85)		Ounces (Grams)	

Storage

Vicor products, when not installed in customer units, should be stored in ESD safe packaging in accordance with ANSI/ESD S20.20, "Protection of Electrical and Electronic Parts, Assemblies and Equipment" and should be maintained in a temperature controlled factory/warehouse environment not exposed to outside elements controlled between the temperature ranges of 15°C and 38°C. Humidity shall not be condensing, no minimum humidity when stored in an ESD compliant package.

VI-AIM Connection Diagram, Typical Application



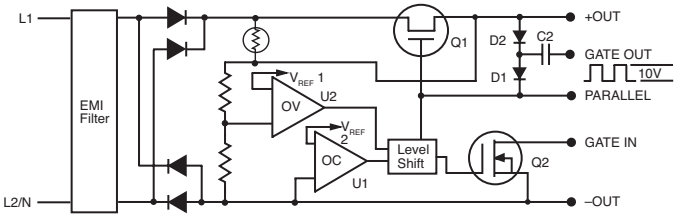
[a] Consult factory or refer to Selecting Capacitors for AIM Modules on page 34 of the VI-200 and VI-J00 Design Guide .

Z1: MOV Part #30076

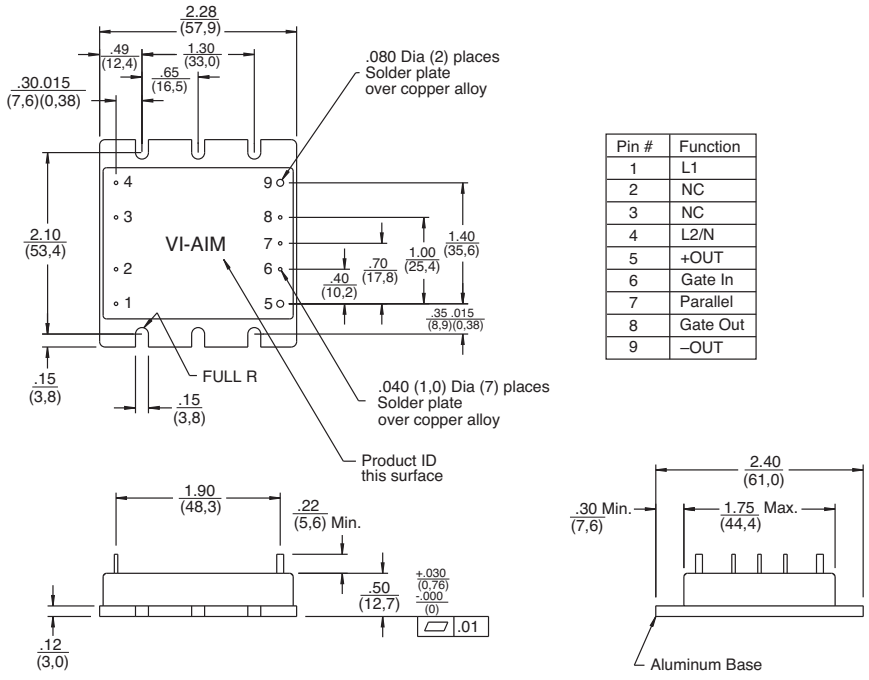
Fuse 1: 6.3A/250V (IEC 5X20mm) Buss GDB-6.3 or 7A / 250V (3AG 1/4" x 1 1/4") Littlefuse 314-007

Fuse 2: For VI-X7X-XX — Buss PC-Tron 2.5A (250V)
For VI-X6X-XX — Buss PC-Tron 3A (250V)
For VI-X5X-XX — Buss PC-Tron 5A

VI-AIM Block Diagram



Mechanical Diagram



Pin #	Function
1	L1
2	NC
3	NC
4	L2/N
5	+OUT
6	Gate In
7	Parallel
8	Gate Out
9	–OUT

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