

VI-IAM™

Input Attenuator Modules

Features

- Inputs: 24, 48 and 300Vdc
- High Surge Withstand:
 - Bellcore
 - British Telecom BTR 2511
 - IEC-60801-5
- EMI/RFI Specifications:
 - Bellcore TR-TSY-000513
 - British Telecom BTR 2511
 - FCC Level “A”
 - EN55022 Level “B”
- UL, CSA, TÜV, VDE, BABT
- 97% Efficiency
- Input Reverse Polarity Protection
- Logic Disable
- Expansion Output for Arrays
- Size: 2.28" x 2.4" x 0.5" (57,9 x 61,0 x 12,7)
- CE Marked

Product Highlights

The Input Attenuator Module (VI-IAM) is a component-level, DC input front end filter designed to occupy minimum board space while providing maximum protection for today's sophisticated electrical systems. The VI-IAM, in combination with Vicor 24, 48 and 300Vdc input modules, provides a highly efficient, high density power system with outputs from 1 to 95Vdc and power expandable from 25 to 800W. Your system will benefit from the small size, efficiency and inherent reliability of Vicor's component-level converters, while meeting the toughest demands of Telecommunications and Industrial power applications.

This combination provides compliance with the transient requirements of Bellcore, British Telecom and IEC standards, and meets the EMI/RFI specifications of Bellcore, British Telecom and FCC Part 15, Subpart B and EN55022.

Compatible Products

- VI-200 and VI-J00 (Inputs: 1, W, 3, N and 6)
- Mega Modules (Inputs: 1, W, 3, N and 6)

VI-IAM Specifications

(typical at $T_{BP} = 25^{\circ}\text{C}$, nominal line, 75% load, unless otherwise specified)

PARAMETER	MIN	TYP	MAX	POWER	REMARKS
Input Range/Power Limit					
VI-A11-CU	21Vdc	24Vdc	32Vdc	200W	Delivered power is from any combination of DC-DC converters
VI-AWW-CU	18Vdc	24Vdc	36Vdc	200W	
VI-A33-CQ	42Vdc	48Vdc	60Vdc	400W	
VI-ANN-CQ	36Vdc	48Vdc	76Vdc	400W	
VI-A66-CQ	200Vdc	300Vdc	400Vdc	400W	
Isolation	1,500 V _{RMS}			Input/Output to Base	
Size	2.28" x 2.4" x 0.5" (57,9 x 61,0 x 12,7)				
Weight	3.0 Ounces (85 Grams)				
EMI/RFI (conducted emissions)	Meets Bellcore TR-TSY-000513, Issue 2, Rev. 1 (24 and 48V Input); British Telecom BTR 2511, Issue 2 (24 and 48V Input); FCC Part 15, Class A, EN55022 Class B				
Transient Protection	Meets Bellcore TA-TSY-001003, Issue 1, 9/89 British Telecom BTR 2511, IEC 61000-4-5 Level 2(VI-A66 only)				
Reverse Polarity Protection	No damage to unit				

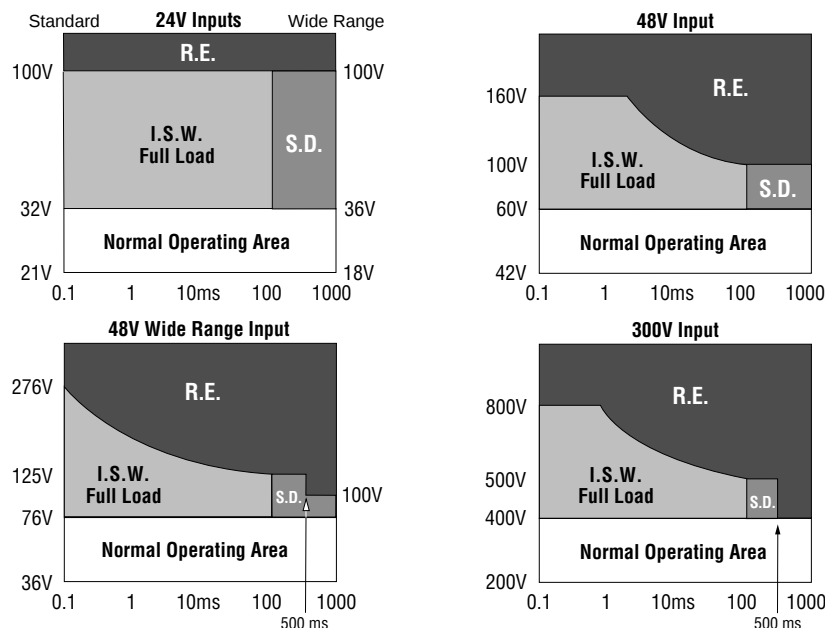
Product Grade Specifications

PARAMETER	PRODUCT GRADE			
	E	C	I	M
Storage Temp.	-20°C to +105°C	-40°C to +105°C	-55°C to +105°C	-65°C to +105°C
Operating Temp. (Baseplate)	-10°C to +100°C	-25°C to +100°C	-40°C to +100°C	-55°C to +100°C

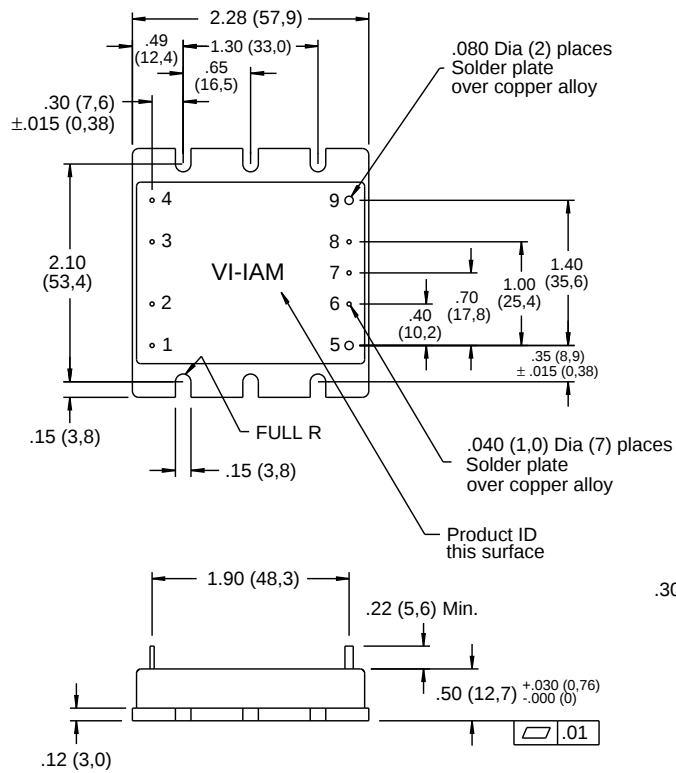
Note: For alternative product grades, change the "C" in the part number to "E", "I" or "M"

Long Term Safe Operating Area Curves

(1% duty cycle max., $Z_s = .5\Omega$, for short duration transient capability refer to specifications)



Mechanical Drawing



Pin #	Function
1	+In
2	+In
3	-In
4	-In
5	+Out
6	Gate In
7	Parallel
8	Gate Out
9	-Out

