

MI-IAM Series

200 WATTS MILITARY COTS INPUT ATTENUATOR MODULES

Features

- **Military Specification Compliance**
- **MIL-STD-461C & D: EMI/RFI**
- **MIL-STD704A: Transients and Spikes**
- **MIL-STD-1275A: Transients and Spikes**
- **MIL-STD-810: Environments**
- **MIL-I-45208: Quality System**
- **Expansion port for additional power**



Specifications

INPUT

Nominal input	28Vdc	270Vdc
Input range	18.8 – 50Vdc	125V – 400Vdc
Input spike limit (MIL-STD-704A) (MIL-STD-1275A/B)	-600V to 600Vdc -250V to 205Vdc	800Vdc max -600V to 600Vdc
Input surge limit	100Vdc	500Vdc
Overvoltage shutdown	50Vdc	400Vdc
Recommended fuse	20A	4A F03A type
Inrush Current	110 %	110% of input typical
Reverse polarity protection	Yes	Yes

OUTPUT

	28Vdc	270Vdc
Output Power	250W	250W
Clamp Voltage	60Vdc	420Vdc
Overload protection	20A	4A

OPERATING

Efficiency	95% – 97%	
Isolation Characteristics	Input to Base 1,500Vrms Output to Base 1,500Vrms	

MECHANICAL

Product grade	I Grade	M Grade
Storage temperature	-55°C to +125°C	-65°C to +125°C
Operating temperature (baseplate)	-40°C to +100°C	-55°C to +100°C
Power cycling burn-in	12hrs 25 cycles	96hrs 200 cycles
Temperature cycled	48 hrs, 12-16cycles	48hrs, 12-16 cycles
With power off	-55°C to +100°C	-65°C to +100°C
Test data supplied at these temperature	-40°C to +80°C	-55°C to +80°C
Derating	NAVMAT P-4855-1A	

STANDARDS AND APPROVALS

Environmental (MIL-STD-810D)

Altitude – Method 500.2	70,000 ft
Humidity - Method 507.2	86/240 (%/hours)
Acceleration – Method 513.3	9 g's
Vibration – Method 514.3	20 g's
Shock – Method 516.3	40 g's

Reliability (MIL-HDBK-217F)

25°C Ground benign	4,719,000 hours
50°C Naval sheltered	849,000 hours
65°C Airborne inhabited cargo	665,000 hours

EMI/RFI characteristics (MIL-STD-461C & D)

Input power leads	
Conduct emissions	CE01, CE03, CE07 MIL-STD-461 C CE101, CE102 MIL-STD-461 D&E
Conducted susceptibility	CS01, CS02, CS06 MIL-STD-461 C CS101, CS114, CS115, CS116 MIL-STD-461 D&E

MECHANICAL

Weight	85 grams
Dimensions	57.9 x 61 x 12.7mm

Selection Table

MODEL NUMBER	NOMINAL INPUT VOLTAGE	INPUT RANGE	COMPATIBLE MI-SERIES	CONVERTER
MI-A22-MU	28Vdc	18.8-50V	MI-22x and MI-J2x	M Grade
MI-A66-MU	270Vdc	125-400V	MI-26x and MI-J6x	M Grade
MI-A22-IU	28Vdc	18.8-50V	MI-22x and MI-J2x	I Grade
MI-A66-IU	270Vdc	125-400V	MI-26x and MI-J6x	I Grade