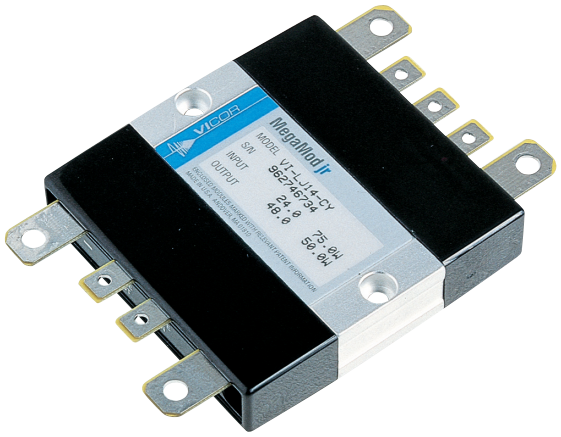
MI-J00 Mega Series

10-150 WATTS MILITARY COTS DC/DC CONVERTER

Features

- **Inputs: 28, 155, 165, to 270VDC**
- **Output: 2 to 48VDC**
- **High efficiency**
- **Remote sense**
- **Up to 13.5 watts/cubic inch**
- **ZVS/ ZCS power architecture**
- **Low noise FM control**



Selection Table

INPUT	
Input Voltage	See table
No load power disspation	Typ 1.35W
OUTPUT	
Output Voltage	See table
Output Power	See table
Output Ripple	80mV pk-pk typical
Load Regulation	0.05% Vnom typical
Line Regulation	0.05% Vnom typical
Current Limit Setting	105%–125%
Set Point Accuracy	0.5% Vnom typical
Low–High Trim Voltage	50%–110%
Total Remote Sense Compensation	0.5V
OPERATING	
Efficiency	80%–90%
Isolation	Input to Output 3,000Vrms Output to Baseplate 500Vrms Input to Baseplate 1,500Vrms
ENVIRONMENTAL	
Cooling	External cooling may be required, consult sales office.
STANDARDS AND APPROVALS	
Safety standards	Refer to MI-J00
MECHANICAL	
Dimensions	1 Up: 65.5x63.5x15.7mm 2 Up: 65.5x124.4x15.7mm 3 Up: 65.5x185.4x15.7mm

Selection Table

Single Output	MI-LJ [a] [b] – [c] [d]	10–50W
Dual Output	MI-PJ [a] [b] [b] – [c] [d] [d]	20–100W
Triple Output	MI-RJ [a] [b] [b] [b] – [c] [d] [d] [d]	30–150W

Please substitute selection character (e.g. [a]) with value designator in the appropriate table below.

A = INPUT VOLTAGE			B = OUTPUT VOLTAGE		
VNOM	**RANGE**	**TRANS**			
2 = 28V	18–50V (1)	60V	Z=2V	M = 10V	J = 36V
5 = 155V	100–210V	230V	Y= 3.3V	1 = 12V	K = 40V
6 = 270V	125–400V (2)	475V	0= 5V	P = 13.8V	4 = 48V
7 = 165V	100–310V (3)		X= 5.2V	2 = 15V	
			V= 5.8V	N = 18.5V	
			T = 6.5V	3 = 24V	
			R = 7.5V	L = 28V	

C = PRODUCT GRADE	D = OUTPUT POWER/CURRENT	
JUNIOR SIZE	**JUNIOR SIZE MODULE**	
	V out ⩾5V	V out <5V
I = -40°C to +100°C	A = 10W	–
M = -55°C to +100°C	Z = 25W	Z = 5A
	Y = 50W	Y = 10A

Note :(1) 16V operation at 75% load.
(2) These units rated at 75% load from 125-150Vin: 5 Vout @ 50W, 2V and 3.3 V @ 10A
(3) For use with Vicor's MI-AIM

For Technical Illustration refer to page 375 in Module Section