VI-200 and VI-J00 Family DC-DC Converters

NEW Wide Range 110 Volt Input

- Over 4 Million Modules Shipped
- 20 Million Hours Demonstrated MTBF

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The VI-200 and VI-J00 families of DC to DC converters have set the standard for high power and reliability in the component power industry. Operating at frequencies of up to 2 MHz, these high density power modules and their "zero-current-switching" topology are field proven through an installed base of over 4 million units.

Compact, easy to use and highly efficient, VI-200 and VI-J00 converters feature wide input voltage range, remote sense, enhanced output programmability, logic disable and low quiescent current. VI-200 products measure 4.6" x 2.4" x 0.5" and also feature output overvoltage protection and thermal shutdown. VI-J00 products, at half the size of VI-200 converters, operate to 100°C. Both product families are safety agency approved, accelerating your time to market.

For higher output power requirements, VI-200 family booster modules may be slaved to a driver module, creating synchronous arrays capable of providing kilowatts of power. E-grade versions of both products make VI-200 and VI-J00 family converters one of the best dollar per watt power values available today. Constructing a total power system has never been easier...or more cost-effective.

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Vicor Express
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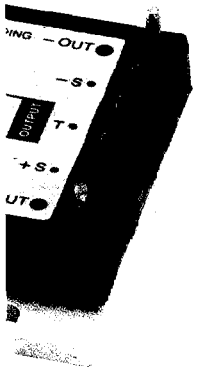

Part Numbering & Electrical Specifications

Summary Electrical Characteristics Full and Junior Size Modules	Typical C, I, M	E
Set Point Accuracy	0.5%	1.0%
Load/Line Regulation	0.05%	0.5%
Output Temperature Drift	0.01%/°C	0.02%/°C
Peak to Peak Output Ripple	1%	3%
High Trim/Program	110%	110%
Low Trim/Program	5%	70%
Total Remote Sense Compensation	0.5V	0.5V
OVP Set Point*	125%	125%
Current Limit	115%	105-135%
Efficiency	80-90%	78-88%

** Not available in junior size modules.*

Typical Model: **V I - 2 6 0 - E U**

Input: 300 VDC; **Output:** 5 VDC at 200 Watts

$150 **Single Quantity E-Grade**

Typical Model: **V I - J 6 1 - E X**

Input: 300 VDC; **Output:** 12 VDC at 75 Watts

$99 **Single Quantity E-Grade**

2 = **Full Size VI-200 Module Family**
4.6"L x 2.4"W x 0.5"H

B = **Full Size Booster Module**
4.6"L x 2.4"W x 0.5"H

J = **Junior Size VI-J00 Module Family**
2.28"L x 2.4"W x 0.5"H

Input Voltage Nominal	Input Voltage Range	VI-200	VI-J00
0 = 12V	10 - 20V	(4)	(1)
1 = 24V	21 - 32V	(8)	(5)
W = 24V	18 - 36V	(8)	(3)
2 = 36V	21 - 56V	(6)	(1)
3 = 48V	42 - 60V	(10)	(5)
N = 48V	36 - 76V	(10)	(2)
4 = 72V	55 - 100V	(9)	(1)
T* = 110V	66 - 160V	(7)	–
5 = 150V	100 - 200V	(9)	(5)
6 = 300V	200 - 400V	(10)	(5)
7 = 150/300V	100 - 375V	(5)	(1)

**Consult factory for availability of "T" input VI-J00s.*

Product Grade

	Full Size	Junior Size
E =	-10°C to +85°C	-10°C to +100°C
C =	-25°C to +85°C	-25°C to +100°C
I =	-40°C to +85°C	-40°C to +100°C
M =	-55°C to +85°C	-55°C to +100°C

Output Voltage

Z =	2V	2 =	15V
Y =	3.3V	3 =	24V
0 =	5V	L =	28V
1 =	12V	4 =	48V

1 to 95V, consult factory.

Output Power/Current

Full Size Module		Junior Size Module	
$V_{OUT} \geq 5V$	$V_{OUT} < 5V$	$V_{OUT} \geq 5V$	$V_{OUT} < 5V$
Y = 50W	Y = 10A	Z = 25W	–
X = 75W	X = 15A	Y = 50W	Y = 10A
W = 100W	W = 20A	X = 75W	X = 15A
V = 150W	V = 30A	W = 100W	W = 20A
U = 200W	U = 40A		

Max. Output For	5V Outputs	> 5V Outputs	< 5V Outputs
(1)	50W	50W	10A
(2)	50W	50W	15A
(3)	50W	75W	15A
(4)	75W	75W	15A
(5)	75W	100W	20A
(6)	100W	100W	20A
(7)	100W	150W	30A
(8)	150W	150W	30A
(9)	150W	200W	40A
(10)	200W	200W	40A