

# VI 200

## 50 - 200W PCB MOUNTING COMPONENTS

### Features

- **Inputs: 10 to 400VDC**
- **Output, 1 to 95VDC**
- **UL, CSA, TÜV, VDE, BABT, CF**
- **80–90% efficiency (typical)**
- **ZCS power architecture**
- **Low noise FM control**
- **Booster versions available for expanded power**



### Specifications

<b>INPUT</b>	
Input voltage	See table
<b>OUTPUT</b>	
PRODUCT GRADE	E, C, I, M
Output voltage	See table
Output power	See table
Set point accuracy	0.5%
Low–high trim voltage	50%–110%
Output ripple pk-pk	1%
Load regulation	0.05%
Line regulation	0.05%
OVP set point	115%–135%
Current limit setting	105%–125%
Remote sense Compensation	0.5V
<b>OPERATING</b>	
MTBF	>1,000,000 hrs
Efficiency	80%–90%
Isolation input – output	3750V rms
Baseplate operating temp.	85°C
Shutdown temperature	95°C
Thermal shutdown	Yes, C, I, M grades
<b>ENVIRONMENTAL</b>	
Cooling	External cooling often required, consult sales office
<b>STANDARDS AND APPROVALS</b>	
Safety	UL1950, CSA C22.2 No. 950, TÜV IEC950, EN60950, VDE 0805
C-Tick	AS/NZS CISPR11 Group 1 Class A
<b>MECHANICAL</b>	
Dimensions	117x61x12.7mm
PCB mounting	Yes

### Selection Table Guide

**VI - 2 [a] [b] - [c] [d]**  
**VI - B [a] [b] - [c] [d] Booster**

Note: For RoHS version replace VI with VE.

Mechanical Drawings See page 230

### Selection Table

<b>A = INPUT VOLTAGE</b>			<b>B = OUTPUT VOLTAGE</b>		
Nominal	Range	Notes			
0= 12V	10–20V	(1)	Z = 2V		2 = 15V
1= 24V	21–32V	(6)	Y = 3.3V		N = 18.5V
W= 24V	18–36V	(4)	0 = 5V		3 = 24V
2= 36V	21–56V	(3)	X = 5.2V		L = 28V
3= 48V	42–60V	(6)	W = 5.5V		J = 36V
N= 48V	36–76V	(6)	V = 5.8V		K = 40V
4= 72V	55–100V	(6)	T = 6.5V		4 = 48V
T= 110V	66–160V	(4)	R = 7.5V		H = 52V
5= 150V	100–200V	(5)	M = 10V		F = 72V
6= 300V	200–400V	(6)	1 = 12V		D = 85V
7= 150/300V	100–375V	(2)	P = 13.8V		B = 95V
<b>C = PRODUCT GRADE</b>			<b>D = OUTPUT POWER/CURRENT</b>		
			<b>V out ≥5V</b>	<b>V out &lt;5V</b>	
E= -10°C to +85°C			Y= 50W	Y= 10A	
C= -25°C to +85°C			X= 75W	X= 15A	
I= -40°C to +85°C			W= 100W	W= 20A	
M= -55°C to +85°C			V= 150W	V= 30A	
			U= 200W	U= 40A	
<b>NOTES:</b>					
NOTES: Maximum Output for — (1) (2) (3) (4) (5) (6)					
5V Outputs 75W 75W* 100W 150W 150W 200W					
>5V Outputs 75W 100W 100W 150W 200W 200W					
<5V Outputs 15A 20A 20A 30A 40A 40A					
*100W @ 5V (20A), 300V input only.					

# Mechanical Drawings

## FULL AND JUNIOR SIZED MECHANICAL SPECIFICATIONS

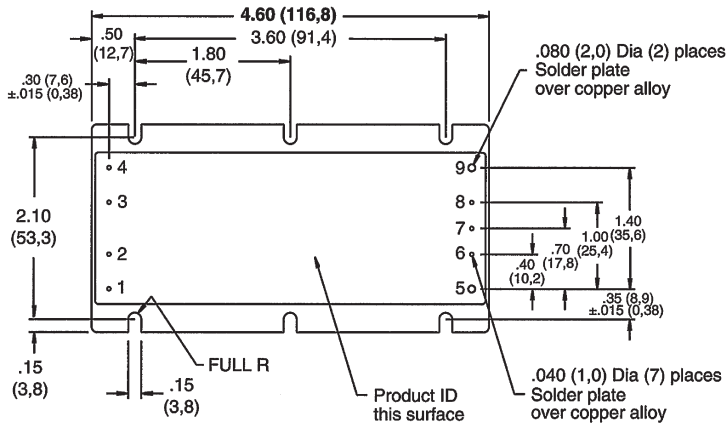
### JUNIOR SIZED MODULES



Half Size Modules				
Pin #	VI-J00	VI-AIM	VI-IAM	VI-RAM
1	+In	L1	+In	+In
2	Gate In	NC	+In	+Sense In
3	Gate Out	NC	-In	-Sense In
4	-In	L2/N	-In	-In
5	+Out	+Out	+Out	+Out
6	+Sense	Gate In	Gate In	+Sense
7	Trim	Parallel	Parallel	NC
8	-Sense	Gate Out	Gate Out	-Sense
9	-Out	-Out	-Out	-Out



### FULL SIZED MODULES



Full Size Modules			
Pin #	VI-200	BatMod	VI-HAM
1	+In	+In	L1
2	Gate In	Gate In	Gate In
3	Gate Out	Gate Out	Gate Out
4	-In	-In	L2/N
5	+Out	+Out	+Out
6*	+Sense	VTRIM	P/OK
7*	Trim	ITRIM	E/O
8*	-Sense	IMON	A/S
9	-Out	-Out	-Out

\* Do not connect on Booster modules

