

### 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

#### INPUT

Input voltage See table

#### OUTPUT

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

#### OPERATING

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

#### ENVIRONMENTAL

Cooling External cooling often required, consult sales office

#### STANDARDS AND APPROVALS

Safety UL1950, CSA C22.2 No. 950, TÜV IEC950, EN60950, VDE 0805

C-Tick AS/NZS CISPR11 Group 1 Class A

#### MECHANICAL

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

A = INPUT VOLTAGE			B = OUTPUT VOLTAGE	
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

#### C = PRODUCT GRADE D = OUTPUT POWER/CURRENT

	V out ≥5V	V out <5V
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

#### NOTES:

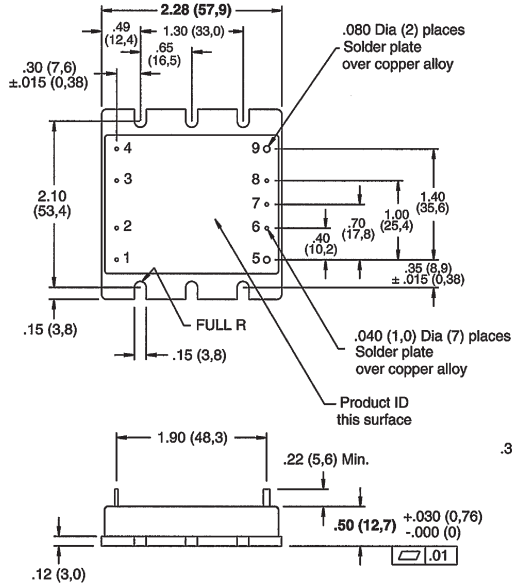
NOTES: Maximum Output for —	(1)	(2)	(3)	(4)	(5)	(6)
5V Outputs	75W	75W*	100W	150W	150W	200W
>5V Outputs	75W	100W	100W	150W	200W	200W
<5V Outputs	15A	20A	20A	30A	40A	40A

\*100W @ 5V (20A), 300V input only.

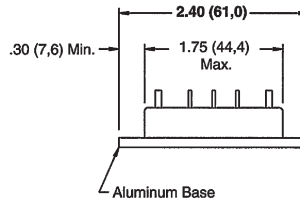
# Mechanical Drawings

## FULL AND JUNIOR SIZED MECHANICAL SPECIFICATIONS

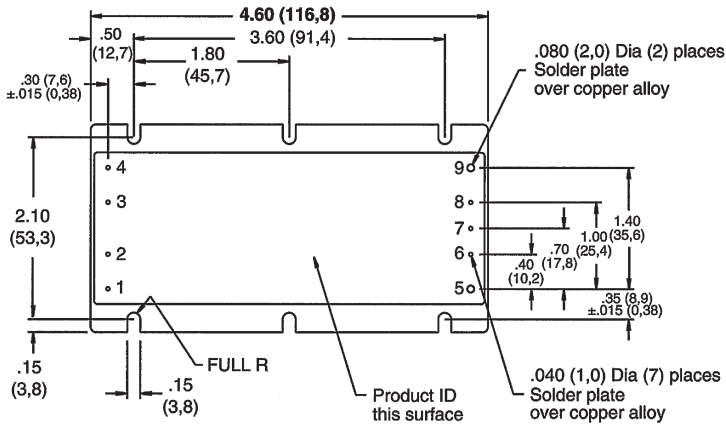
### JUNIOR SIZED MODULES



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

