

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:

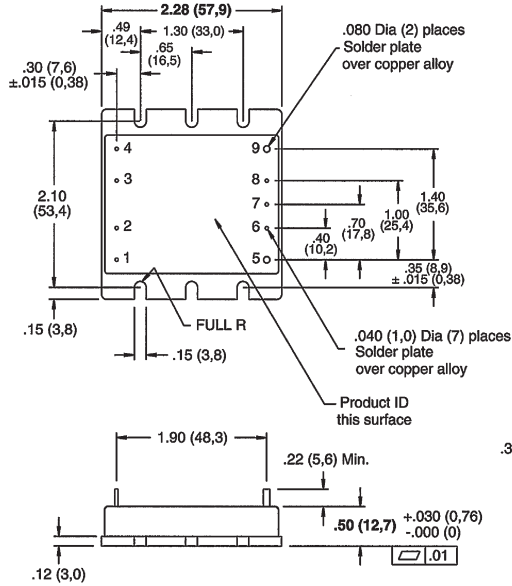
| NOTES: Maximum Output for — | (1) | (2) | (3) | (4) | (5) | (6) |
|-----------------------------|-----|------|------|------|------|------|
| 5V Outputs | 75W | 75W* | 100W | 150W | 150W | 200W |
| >5V Outputs | 75W | 100W | 100W | 150W | 200W | 200W |
| <5V Outputs | 15A | 20A | 20A | 30A | 40A | 40A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

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

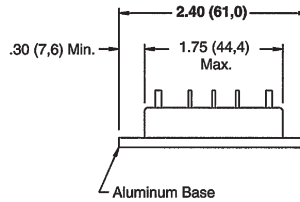
Mechanical Drawings

FULL AND JUNIOR SIZED MECHANICAL SPECIFICATIONS

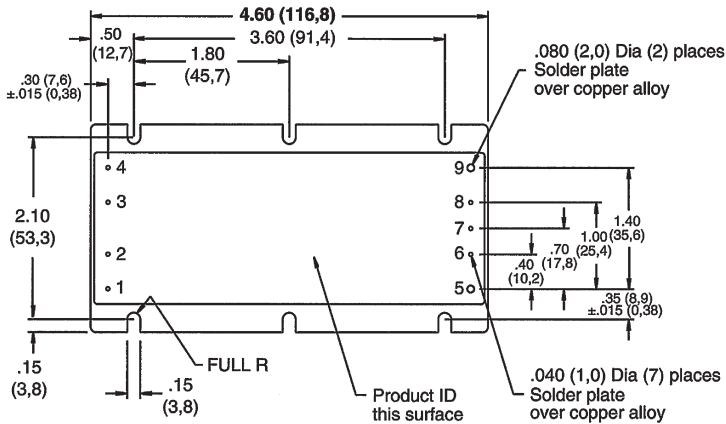
JUNIOR SIZED MODULES



| 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

