

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

| 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

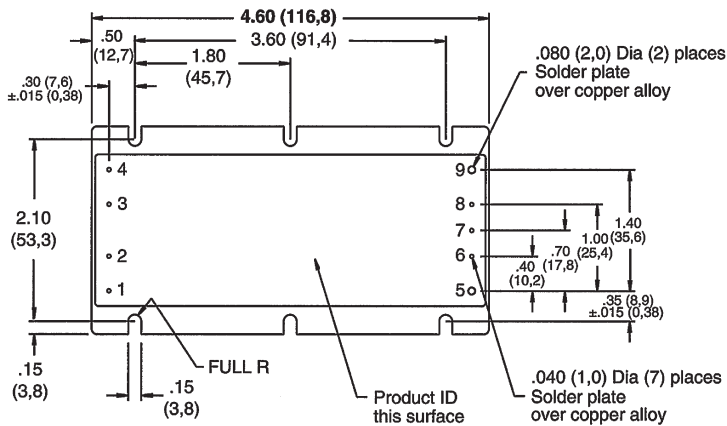
JUNIOR SIZED MODULES



| 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

