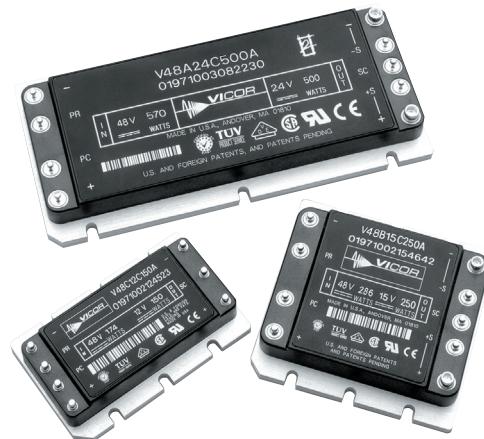


48V 2nd Gen

50 - 500W PCB MOUNTING COMPONENTS

Features

- **Input Voltage: 36-75Vdc**
- **Output Voltage: 2-48Vdc**
- **Output Power (per module)**
- **Micro: 150W, Mini: 250W, Maxi: 500W**
- **Efficiency: Up to 90%**
- **Agency Approvals: UL, CSA, TUV, VDE, BABT, CE Marked, C-Tick**



Specifications

GENERAL

| | UNITS | NOTES |
|-----------------------------|--------------------|-----------------------|
| Set point accuracy | ±1%Vout nom | Nominal input; |
| Line regulation | ±0.02%Vout nom. | Low line to high |
| Load regulation | ±0.02%Vout nom. | No load to full |
| Temperature regulation | ±0.002%Vout/°C | -20°C to 100°C |
| Ripple and noise, p-p | 100 mV | Full load, 20MHz |
| Remote sense compensation | 0.5 Volts | |
| Overvoltage set point | 115% Vout nom. | |
| Current limit | 115% out max. | Vout 95% of |
| Efficiency: 5Vout 24Vout | 83% | Nominal input; 88% |
| Programming range | 10-110 % Vout nom. | |
| Short circuit current | 115% out max. | Output Voltage |
| Isolation voltage | 3000 Vrms | Input to Output |

(typical unless otherwise noted)

STANDARDS AND APPROVALS

| | |
|--------|--------------------------------|
| C-Tick | AS/NZS CISPR11 Group 1 Class A |
|--------|--------------------------------|

Selection Table

| OUTPUT VOLTAGE (VDC) | OUTPUT POWER (W) | | |
|----------------------|------------------|------|-----------|
| | MAXI | MINI | MICRO |
| 2V | N/A | 100 | 50 |
| 3.3V | 264 | 150 | 75 |
| 5V | 400 | 200 | 100/75/50 |
| 12V | 500 | 250 | 150 |
| 15V | 500 | 250 | 150 |
| 24V | 500 | 250 | 150 |
| 28V | 500 | 250 | 150 |
| 48V | 500 | 250 | 150 |

Product Grade Specifications

| | E | C | T | H | M |
|----------------------|------------|------------|------------|-----------------------|-----------------------|
| Operating Temp. (°C) | -10 to 100 | -20 to 100 | -40 to 100 | -40 to 100 | -55 to 100 |
| Storage Temp. (°C) | -20 to 125 | -40 to 125 | -40 to 125 | -55 to 125 | -65 to 125 |
| Temp. Cycling (°C) | none | none | none | 24 hours (-55 to 125) | 24 hours (-65 to 125) |
| Burn-In | none | none | none | 12 hours | 24 hours |
| Low Temp. Test (°C) | none | none | none | -40°C | -55°C |
| High Temp. Test (°C) | none | none | none | 100°C | 100°C |
| Final Test Data | none | none | none | | |

Mechanical Drawings refer to page 237-238

Part Numbering

| | | | | | | | | |
|----------------------|-----------|-----------------------------------|-----------------------|---|---------------------|----------|---|--|
| V | 48 | A | 48 | C | 500 | B | L | |
| Input Voltage | | Package | Output Voltage | Product Grade | Output Power | | Pin Style | Baseplate |
| | | A = Maxi B = Mini C = Micro | | E = -10 to +100°C C = -20 to +100°C T = -40 to +100°C H = -40 to +100°C M = -55 to +100°C | | | Blank = Short solder L = Long solder S = Short ModuMate N = Long ModuMate F = Short RoHS G = Long RoHS | Blank = Slotted 2 = Threaded 3 = Thru hole |