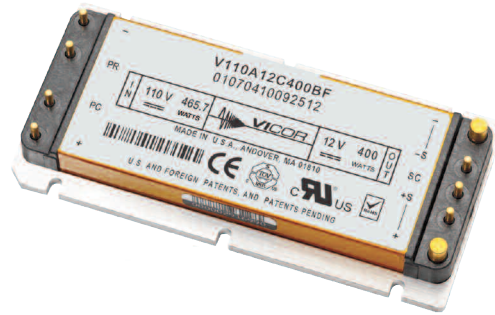


48V Maxi Mini Micro

50-500 WATTS - DC/DC CONVERTERS

FEATURES

- Input Voltage: 36-75Vdc Micro
- Output Voltage: 2-48Vdc
- Up to 120 W/in³
- Low noise zero-current switching and zero-voltage switching technology
- Single-wire paralleling
- Output voltage adjusts from 10-110%
- Logic enable / disable
- Input undervoltage lockout
- Output overvoltage protection



SPECIFICATIONS

| INPUT | | |
|----------------------------------|---|------------------|
| Voltage range | 36-75Vdc | |
| OUTPUT | | |
| 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 100oC |
| 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: 5V out | 83% | Nominal input; |
| 24V out | 88% | load; 25°C |
| 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 | | |
| Safety | UL60950-1, CSA60950-1, EN60950-1, IEC 60950-1 | |

SELECTION TABLES


| OUTPUT VOLTAGE (VDC) | OUTPUT POWER (W) | | |
|----------------------|------------------|------|------|
| | MICRO | MINI | MAXI |
| 2V | 50 | 150 | |
| 3.3V | 75 | 150 | 264 |
| 5V | 100 | 200 | 400 |
| 8V | 150 | | 400 |
| 12V | 150 | 250 | 500 |
| 15V | 150 | 250 | 500 |
| 24V | 150 | 250 | 500 |
| 28V | 150 | 250 | 500 |
| 36V | 150 | 250 | 500 |
| 48V | 150 | 250 | 500 |

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 | 24 hours |
| | | | | (-55 to 125) | (-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 | | |

Refer to mechanical drawings

PART NUMBERING

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

^[a] Consult factory for other input / output / power models.