



Data Sheet

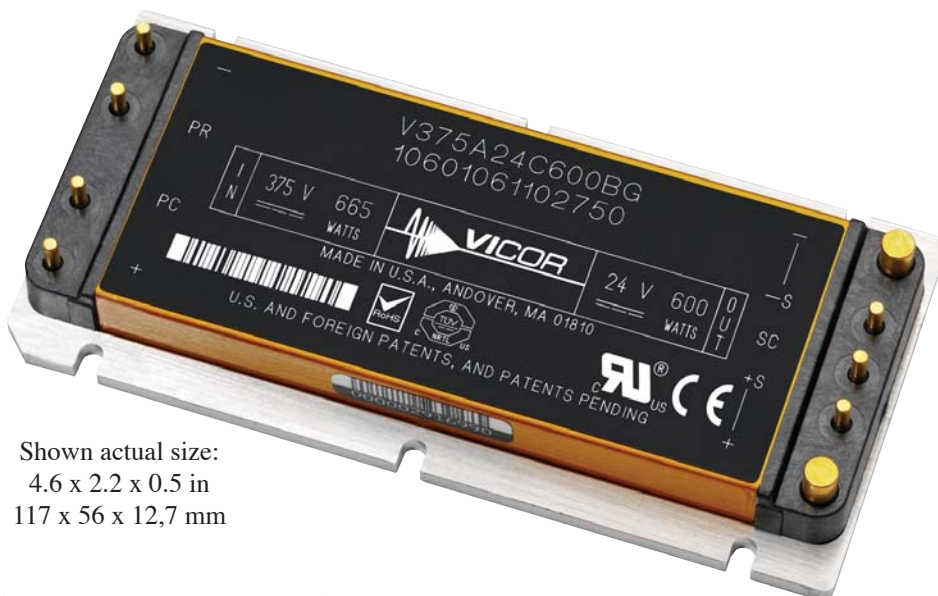
375V Input Maxi Family

DC-DC Converter Module



Features

- RoHS Compliant (with F or G pin option)
- DC input range: 250 – 425 V
- Input surge withstand: 500 V for 100 ms
- DC output: 2 – 54 V
- Programmable output: 10 to 110%
- Regulation: $\pm 0.5\%$ no load to full load
- Efficiency: Up to 89%
- Maximum operating temp: 100°C, full load
- Power density: up to 120 W per cubic inch
- Height above board: 0.43 in. (10.9 mm)
- Parallelable, with N+M fault tolerance
- Low noise ZCS/ZVS architecture



Shown actual size:
4.6 x 2.2 x 0.5 in
117 x 56 x 12.7 mm

Product Overview

These DC-DC converter modules use advanced power processing, control and packaging technologies to provide the performance, flexibility, reliability and cost effectiveness of a mature power component. High frequency ZCS/ZVS switching provides high power density with low noise and high efficiency.

Applications

Off-line systems with PFC front ends, industrial and process control, distributed power, medical, ATE, communications, defense, aerospace

Part Numbering

e.g. V375A12T600BL2

Absolute Maximum Ratings

Parameter	Rating	Unit	Notes
+In to -In voltage	-0.5 to +425	Vdc	
PC to -In voltage	-0.5 to +7.0	Vdc	
PR to -In voltage	-0.5 to +7.0	Vdc	
SC to -Out voltage	-0.5 to +1.5	Vdc	
-Sense to -Out voltage	1.0	Vdc	
Isolation voltage			
in to out	3000	Vrms	
in to base	1550	Vrms	
out to base	500	Vrms	
Operating Temperature	-55 to +100	°C	M-Grade
Storage Temperature	-65 to +125	°C	M-Grade
Pin soldering temperature	500 (260)	°F (°C)	<5 sec; wave solder
	750 (390)	°F (°C)	<7 sec; hand solder
Mounting torque	5 (0.57)	in-lbs (N-m)	6 each

V375A B

Output Voltage

2 = 2 V
3 V 3 = 3.3 V
5 = 5 V
12 = 12 V
15 = 15 V
24 = 24 V
28 = 28 V
32 = 32 V
36 = 36 V
48 = 48 V
54 = 54 V

Product Grade Temperatures (°C)

Grade	Operating	Storage
E	-10 to +100	-20 to +125
C	-20 to +100	-40 to +125
T	-40 to +100	-40 to +125
H	-40 to +100	-55 to +125
M	-55 to +100	-65 to +125

Output Power

Vout	Pout
2 V	160 W
3.3 V	264 W, 200 W
5 V	300 W, 400 W
12 V	400 W, 600 W
15 V	400 W, 600 W
24 V	400 W, 600 W
28 V	400 W, 600 W
32 V	600 W
36 V	400 W, 600 W
48 V	400 W, 600 W
54 V	600 W

Pin Style

Blank: Short Tin/Lead
L: Long Tin/Lead
S: Short ModuMate
N: Long ModuMate
F: Short RoHS
G: Long RoHS

Baseplate

Blank: Slotted
2: Threaded
3: Through-hole

For a description of pin options, see page 10. Baseplate options include slotted flanges, threaded and thru-hole. See page 11 for dimensions. For other package sizes and power levels, see the FasTrak Mini (half size) and FasTrak Micro (quarter size) data sheets.

MODULE FAMILY ELECTRICAL CHARACTERISTICS

Electrical characteristics apply over the full operating range of input voltage, output load (resistive) and baseplate temperature, unless otherwise specified. All temperatures refer to the operating temperature at the center of the baseplate.

■ MODULE OPERATING SPECIFICATIONS

Parameter	Min	Typ	Max	Unit	Notes
Operating input voltage	250	375	425	Vdc	
Input surge withstand			500	Vdc	<100 ms
Output voltage setpoint			1	% Vout nom	Nominal input; full load; 25°C

■ MODULE INPUT SPECIFICATIONS

Parameter	Min	Typ	Max	Unit	Notes
Undervoltage turn-on		242.5	247.5	Vdc	
Undervoltage turn-off	204.7	212.2		Vdc	
Overvoltage turn-off/on	429.2	446.3	467.5	Vdc	

■ MODULE OUTPUT SPECIFICATIONS

Parameter	Min	Typ	Max	Unit	Notes
Line regulation		±0.02	±0.2	%	Low line to high line; full load
Temperature regulation		±0.002	±0.005	% / °C	Over operating temperature range
Power sharing accuracy		±2	±5	%	10 to 100% of full load
Programming range	10		110	%	Of nominal output voltage. For trimming below 90% of nominal, a minimum load of 10% of maximum rated power may be required.
+Out to -Out, +Sense to -Out					
2 V			-0.5 to 3.1	Vdc	
3.3 V			-0.5 to 4.7	Vdc	
5 V			-0.5 to 7.0	Vdc	
12 V			-0.5 to 16.1	Vdc	
15 V			-0.5 to 20.0	Vdc	
24 V			-0.5 to 31.7	Vdc	
28 V			-0.5 to 36.9	Vdc	
32 V			-0.5 to 41.9	Vdc	
36 V			-0.5 to 47.1	Vdc	
48 V			-0.5 to 62.9	Vdc	
54 V			-0.5 to 70.2	Vdc	

Note: For important information relative to applications where the converter modules are subject to continuous dynamic loading, contact Vicor applications engineering at 800-927-9474.

■ THERMAL RESISTANCE AND CAPACITY

Parameter	Min	Typ	Max	Unit
Baseplate to sink; flat, greased surface		0.08		°C/Watt
Baseplate to sink; thermal pad (P/N 20265)		0.07		°C/Watt
Baseplate to ambient		4.9		°C/Watt
Baseplate to ambient; 1000 LFM		1.1		°C/Watt
Thermal capacity		165		Watt-sec/°C

MODULE FAMILY ELECTRICAL CHARACTERISTICS (CONT.)

■ MODULE CONTROL SPECIFICATIONS

Parameter	Min	Typ	Max	Unit	Notes
PRIMARY SIDE (PC = Primary Control; PR = Parallel)					
PC bias voltage	5.50	5.75	6.00	Vdc	PC current = 1.0 mA
current limit	1.5	2.1	3.0	mA	PC voltage = 5.5 V
PC module disable	2.3	2.6	2.9	Vdc	Must be able to sink ≥ 4 mA. See Fig. 1
PC module enable delay		4	7	ms	
PC module alarm			0.5	Vavg	UV, OV, OT, module fault. See Figs. 2 and 4
PR emitter amplitude	5.7	5.9	6.1	Volts	PR load >30 ohms, <30 pF
PR emitter current	150			mA	
PR receiver impedance	375	500	625	ohms	25°C
PR receiver threshold	2.4	2.5	2.6	Volts	Minimum pulse width: 20 ns
PR drive capability			12	modules	Without PR buffer amplifier
SECONDARY SIDE (SC = Secondary Control)					
SC bandgap voltage	1.21	1.23	1.25	Vdc	Referenced to –Sense
SC resistance	990	1000	1010	ohms	
SC capacitance		0.033		μ F	
SC module alarm		0		Vdc	With open trim; referenced to –Sense. See Fig. 6

■ MODULE GENERAL SPECIFICATIONS

Parameter	Min	Typ	Max	Unit	Notes
Remote sense (total drop)			0.5	Vdc	0.25 V per leg (senses must be closed)
Isolation voltage (in to out)	3000			Vrms	Complies with reinforced insulation requirements
Isolation voltage (in to base)	1550			Vrms	Complies with basic insulation requirements
Isolation voltage (out to base)	500			Vrms	Complies with operational insulation requirements
Isolation resistance (in to out)		10		megohms	
Weight		8.2 (232.5)	8.3 (235.3)	ounces (grams)	
Temperature limiting	100	115		°C	See Figs. 2 and 4
Agency approvals		cULus, TÜV, CE			UL60950, EN60950, CSA60950, IEC60950. With a fuse in series with the +Input

Note:

Specifications are subject to change without notice.

2 Vout, 160 W (e.g. V375A2C160BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	72	73.7		%	Nominal input; full load; 25°C
Ripple and noise		200	250	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	2.7	2.8	2.9	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		8.4	11	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	81.6	92	108	Amps	Output voltage 95% of nominal
Short circuit current	56	92	108	Amps	Output voltage <250 mV

3.3 Vout, 264 W (e.g. V375A3V3C264BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	79.4	81.5		%	Nominal input; full load; 25°C
Ripple and noise		120	150	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	4.14	4.3	4.46	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		4.9	7.8	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	81.6	92	104	Amps	Output voltage 95% of nominal
Short circuit current	56	92	104	Amps	Output voltage <250 mV

3.3 Vout, 200 W (e.g. V375A3V3C200BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	78	78.9		%	Nominal input; full load; 25°C
Ripple and noise		60	75	mV	p-p; Nominal input; full load; 20MHz bandwidth
Output OVP setpoint	4.14	4.3	4.46	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		7.9	9.1	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	61.8	69.7	81.9	Amps	Output voltage 95% of nominal
Short circuit current	42.4	69.7	81.9	Amps	Output voltage <250 mV

5 Vout, 400 W (e.g. V375A5C400BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	80	83		%	Nominal input; full load; 25°C
Ripple and noise		120	150	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	6.26	6.49	6.72	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		6.6	9	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	81.6	92	108	Amps	Output voltage 95% of nominal
Short circuit current	56	97	108	Amps	Output voltage <250 mV

5 Vout, 300 W (e.g. V375A5C300BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	82	83.3		%	Nominal input; full load; 25°C
Ripple and noise		80	100	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	6.03	6.25	6.47	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		8.8	10.2	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	61.2	69	81	Amps	Output voltage 95% of nominal
Short circuit current	42	69	81	Amps	Output voltage <250 mV

12 Vout, 600 W (e.g. V375A12C600BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	81.5	86		%	Nominal input; full load; 25°C
Ripple and noise		320	400	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	13.7	14.3	14.9	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		8.7	13	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	51	57.5	67.5	Amps	Output voltage 95% of nominal
Short circuit current	35	57.5	67.5	Amps	Output voltage <250 mV

12 Vout, 400 W (e.g. V375A12C400BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	85	86.6		%	Nominal input; full load; 25°C
Ripple and noise		240	300	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	13.7	14.3	14.9	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		12.5	14.5	Watts	No load
Load regulation		±0	±0.2	%	No load to full load; nominal input
Current limit	33.9	38.3	45	Amps	Output voltage 95% of nominal
Short circuit current	23.3	38.3	45	Amps	Output voltage <250 mV

15 Vout, 600 W (e.g. V375A15C600BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	85.5	87.5		%	Nominal input; full load; 25°C
Ripple and noise		240	300	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	17.1	17.8	18.5	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		9	12	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	40.8	46	52	Amps	Output voltage 95% of nominal
Short circuit current	28	46	52	Amps	Output voltage <250 mV

15 Vout, 400 W (e.g. V375A15C400BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	84	85.3		%	Nominal input; full load; 25°C
Ripple and noise		300	375	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	17.1	17.8	18.5	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		12.3	14	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	27.2	30.7	36.1	Amps	Output voltage 95% of nominal
Short circuit current	18.6	30.7	36.1	Amps	Output voltage <250 mV

24 Vout, 600 W (e.g. V375A24C600BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	85.5	87.5		%	Nominal input; full load; 25°C
Ripple and noise		80	100	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	27.1	28.1	29.1	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		9.3	10.9	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	25.5	28.8	33.8	Amps	Output voltage 95% of nominal
Short circuit current	17.5	28.8	37.5	Amps	Output voltage <250 mV

24 Vout, 400 W (e.g. V375A24C400BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	86.5	87.7		%	Nominal input; full load; 25°C
Ripple and noise		120	150	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	27.1	28.1	29.1	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		13.2	15	Watts	No load
Load regulation		±0	±0.2	%	No load to full load; nominal input
Current limit	17	19.2	22.6	Amps	Output voltage 95% of nominal
Short circuit current	5	19.2	22.6	Amps	Output voltage <250 mV

28 Vout, 600 W (e.g. V375A28C600BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	86.8	87.8		%	Nominal input; full load; 25°C
Ripple and noise		120	150	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	31.5	32.7	33.9	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		9.5	10.2	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	21.8	24.7	28.9	Amps	Output voltage 95% of nominal
Short circuit current	14	24.7	28.9	Amps	Output voltage <250 mV

28 Vout, 400 W (e.g. V375A28C400BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	86.5	88		%	Nominal input; full load; 25°C
Ripple and noise		160	200	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	31.5	32.7	33.9	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		10.7	12	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	14.5	16.4	19.4	Amps	Output voltage 95% of nominal
Short circuit current	10	16.4	19.4	Amps	Output voltage <250 mV

32 Vout, 600 W (e.g. V375A32C600BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	87.1	88.1		%	Nominal input; full load; 25°C
Ripple and noise		168	210	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	35.9	37.3	38.7	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		11.3	11.7	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	19.1	21.6	24.5	Amps	Output voltage 95% of nominal
Short circuit current	13.1	21.6	24.5	Amps	Output voltage <250 mV

36 Vout, 600 W (e.g. V375A36C600BL) Consult factory for availability

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	85.5	88		%	Nominal input; full load; 25°C
Ripple and noise		TBD	TBD	mV	p-p; Nominal input; full load; 20MHz bandwidth
Output OVP setpoint	40.4	41.9	43.4	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		6	16	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	17	19.2	22.6	Amps	Output voltage 95% of nominal
Short circuit current	11.6	19.2	22.6	Amps	Output voltage <250 mV

36 Vout, 400 W (e.g. V375A36C400BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	87.6	88.6		%	Nominal input; full load; 25°C
Ripple and noise		150	188	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	40.4	41.9	43.4	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		12.4	13.2	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	11.3	12.8	15	Amps	Output voltage 95% of nominal
Short circuit current	7.77	12.8	15	Amps	Output voltage <250 mV

48 Vout, 600 W (e.g. V375A48C600BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	87	88.5		%	Nominal input; full load; 25°C
Ripple and noise		80	100	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	53.2	55.2	57.2	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		6	8	Watts	No load
Load regulation		±0.02	±0.25	%	No load to full load; nominal input
Current limit	12.7	14.4	16.3	Amps	Output voltage 95% of nominal
Short circuit current	8	14.4	16.3	Amps	Output voltage <250 mV

48 Vout, 400 W (e.g. V375A48C400BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	87	88.3		%	Nominal input; full load; 25°C
Ripple and noise		200	250	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	53.7	55.7	57.7	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		14.2	16.3	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	8.49	9.58	11.3	Amps	Output voltage 95% of nominal
Short circuit current	5.83	9.58	11.3	Amps	Output voltage <250 mV

54 Vout, 600 W (e.g. V375A54C600BL)

Parameter	Min	Typ	Max	Unit	Notes
Efficiency	87.7	89.6		%	Nominal input; full load; 25°C
Ripple and noise		160	200	mV	p-p; Nominal input; full load; 20 MHz bandwidth
Output OVP setpoint	60.4	62.6	64.8	Volts	25°C; recycle input voltage to restart (1 minute off)
Dissipation, standby		6	12	Watts	No load
Load regulation		±0.02	±0.2	%	No load to full load; nominal input
Current limit	11.3	12.8	15	Amps	Output voltage 95% of nominal
Short circuit current	7.77	12.8	15	Amps	Output voltage <250 mV

Module Enable/Disable

The module may be disabled by pulling PC below 2.3 V with respect to the -Input. This may be done with an open collector transistor, relay, or optocoupler. Multiple converters may be disabled with a single transistor or relay either directly or via "OR'ing" diodes. See Figure 1.

Primary Auxiliary Supply

At 5.7 V, PC can source up to 1.5 mA. In the example shown in Figure 3, PC powers a module enabled LED.

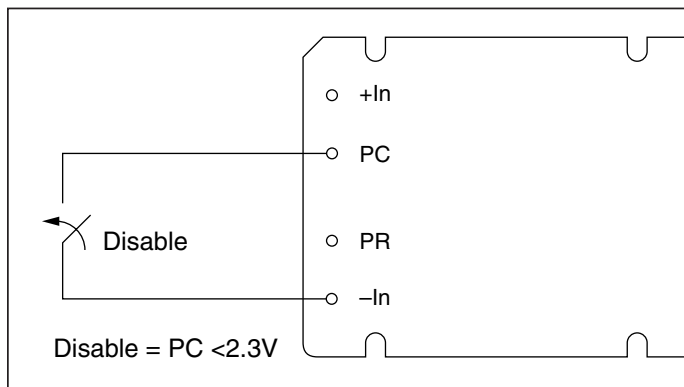


Figure 1 — Module enable/disable.

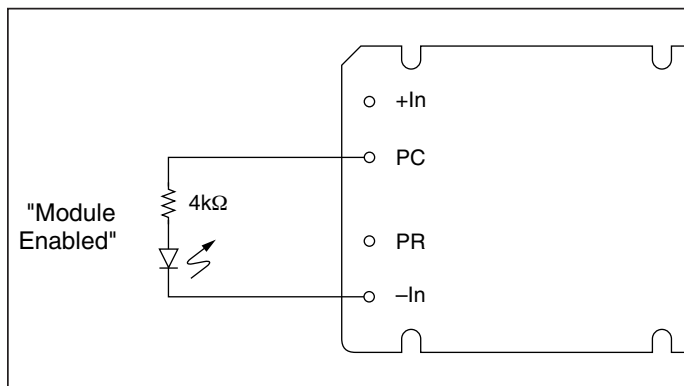


Figure 3 — LED on-state indicator.

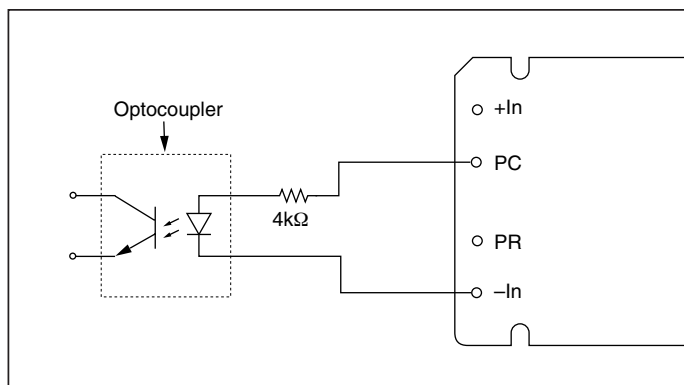


Figure 5 — Isolated on-state indicator.

Module Alarm

The module contains "watchdog" circuitry which monitors input voltage, operating temperature and internal operating parameters. In the event that any of these parameters are outside of their allowable operating range, the module will shut down and PC will go low. PC will periodically go high and the module will check to see if the fault (as an example, overtemperature) has cleared. If the fault has not been cleared, PC will go low again and the cycle will restart. The SC pin will go low in the event of a fault and return to its normal state after the fault has been cleared. See Figures 2 and 4.

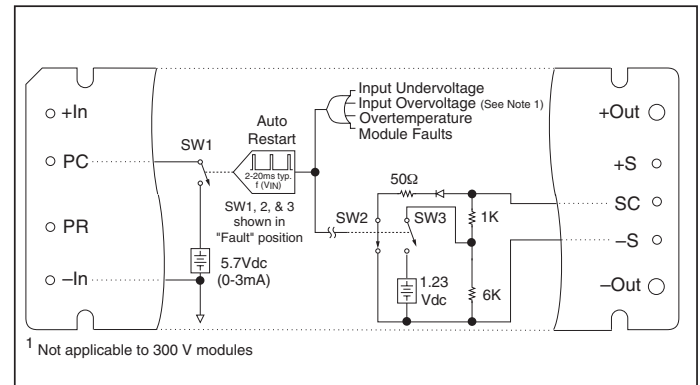


Figure 2 — PC/SC module alarm logic.

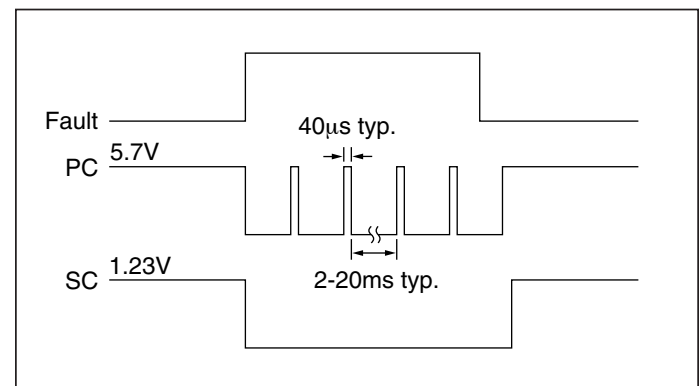


Figure 4 — PC/SC module alarm timing.

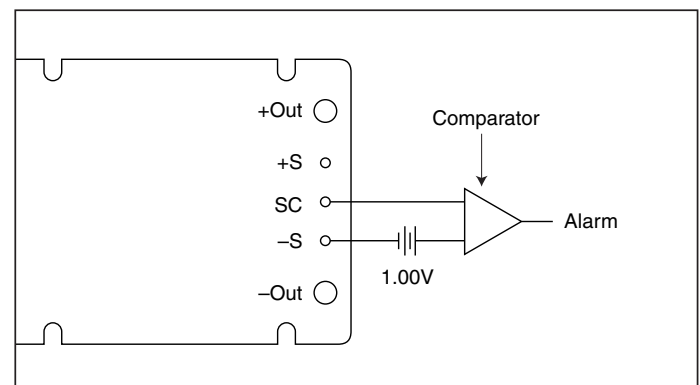


Figure 6 — Secondary side on-state indicator.

Output Voltage Programming

The output voltage of the converter can be adjusted or programmed via fixed resistors, potentiometers or voltage DACs. See Figures 7 and 8.

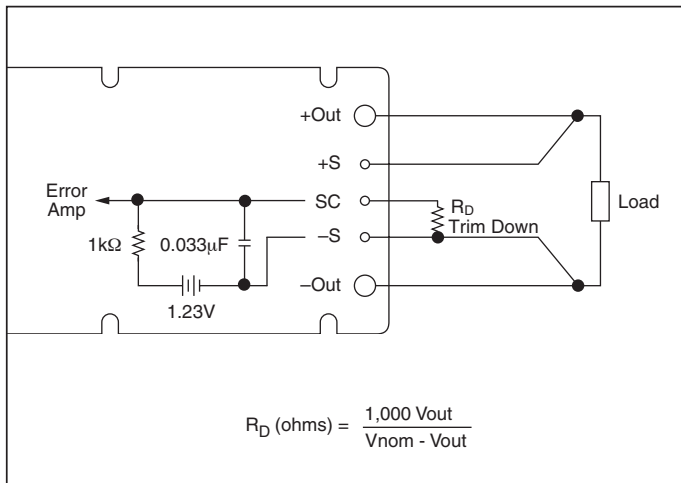


Figure 7 — Output voltage trim down circuit.

Trim Down

1. This converter is not a constant power device – it has a constant current limit. Hence, available output power is reduced by the same percentage that output voltage is trimmed down. Do not exceed maximum rated output current.
2. The trim down resistor must be connected to the –Sense pin.

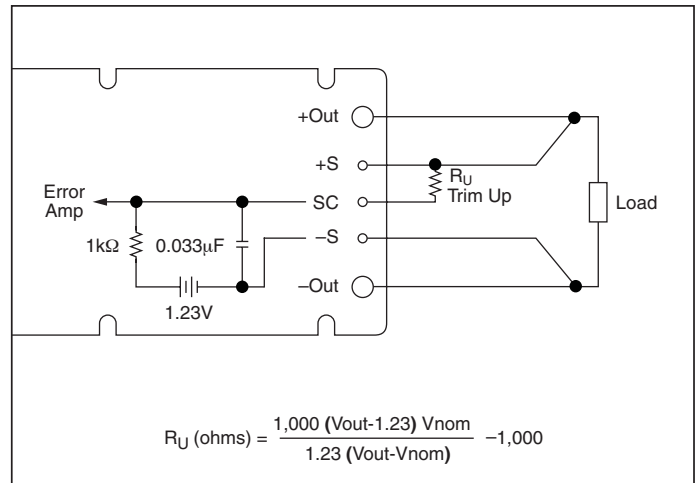


Figure 8 — Output voltage trim up circuit.

Trim Up

1. The converter is rated for a maximum delivered power. To ensure that maximum rated power is not exceeded, reduce maximum output current by the same percentage increase in output voltage.
2. The trim up resistor must be connected to the +Sense pin.
3. Do not trim the converter above maximum trim range (typically +10%) or the output over voltage protection circuitry may be activated.

Resistor Values for Fixed Output Voltage Trimming

[back to main window](#)

Vicor product: ☐ VI-200 ☐ VI-J00 ☒ Maxi, Mini, and Micro

Notes: VI-200 and VI-J00 — Minimum preload of 1% should be maintained
Maxi, Mini, and Micro — Consult factory when trimming below –10%

Nominal output voltage: 12V

Trim range: 1.2 to 13.2 V or Vnom –90 to +10 %

Desired output voltage: 9 V or Vnom –25 %

[Clear Output Voltage](#)

[Calculate](#) Trim resistor value: 3 K ohm [Reset](#)

Ru = Trim up resistor

Rd = Trim down resistor

Trim resistor values calculated automatically:

On-line calculators for trim resistor values are available on the vicor website at: vicorpower.com/tools.html.

Resistor values can be calculated for fixed trim up, fixed trim down and for variable trim up or down.

In addition to trimming information, the web site and the Applications Manual also include design tips, applications circuits, EMC suggestions, thermal design guidelines and PDF data sheets for all available Vicor products.

Parallel Operation

The PR pin supports paralleling for increased power with N+1 (N+M) redundancy and phased array capability. Modules of the same input voltage, output voltage, and power level will current share if all PR pins are suitably interfaced.

Compatible interface architectures include the following:

DC coupled single-wire interface. All PR pins are directly connected to one another. This interface supports current

sharing but is not fault tolerant. Minus In pins must be tied to the same electric potential. See Figure 9.

AC coupled single-wire interface. All PR pins are connected to a single communication bus through 0.001 μ F (500 V) capacitors. This interface supports current sharing and is fault tolerant except for the communication bus. See Figure 10.

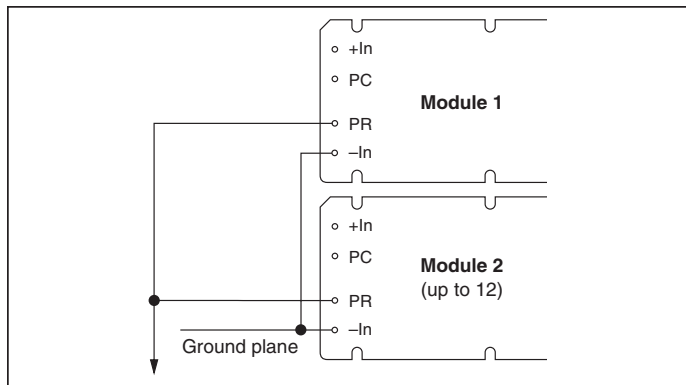


Figure 9 — DC coupled single-wire interface.

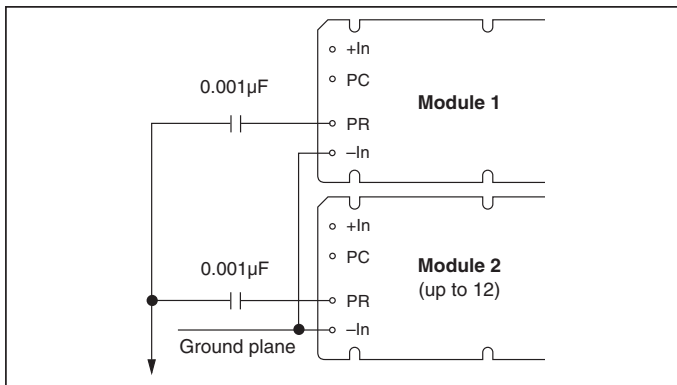


Figure 10 — AC coupled single-wire interface.

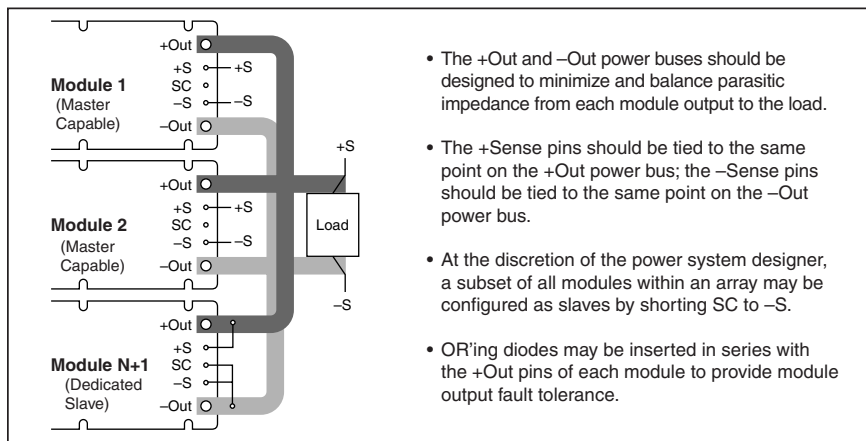


Figure 11 — N+1 module array output connections.

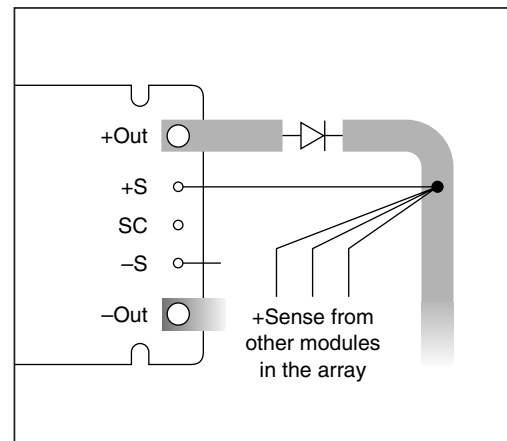


Figure 12 — OR'ing diodes connections.

Pin Styles *

Designator	Description	Notes
(None)	Short solder	Requires in-board, mounting
L	Long solder	On-board mounting for 0.065" boards
S	Short ModuMate	SurfMate or in-board socket mounting
N	Long ModuMate	On-board socket mounting
F	Short RoHS	Select for RoHS compliant in-board solder, socket, or SurfMate mounting
G	Long RoHS	Select for RoHS compliant on-board solder or socket mounting

* Pin style designator follows the "B" after the output power and precedes the baseplate designator.

Ex. V375A12T600BN2 — Long ModuMate Pins

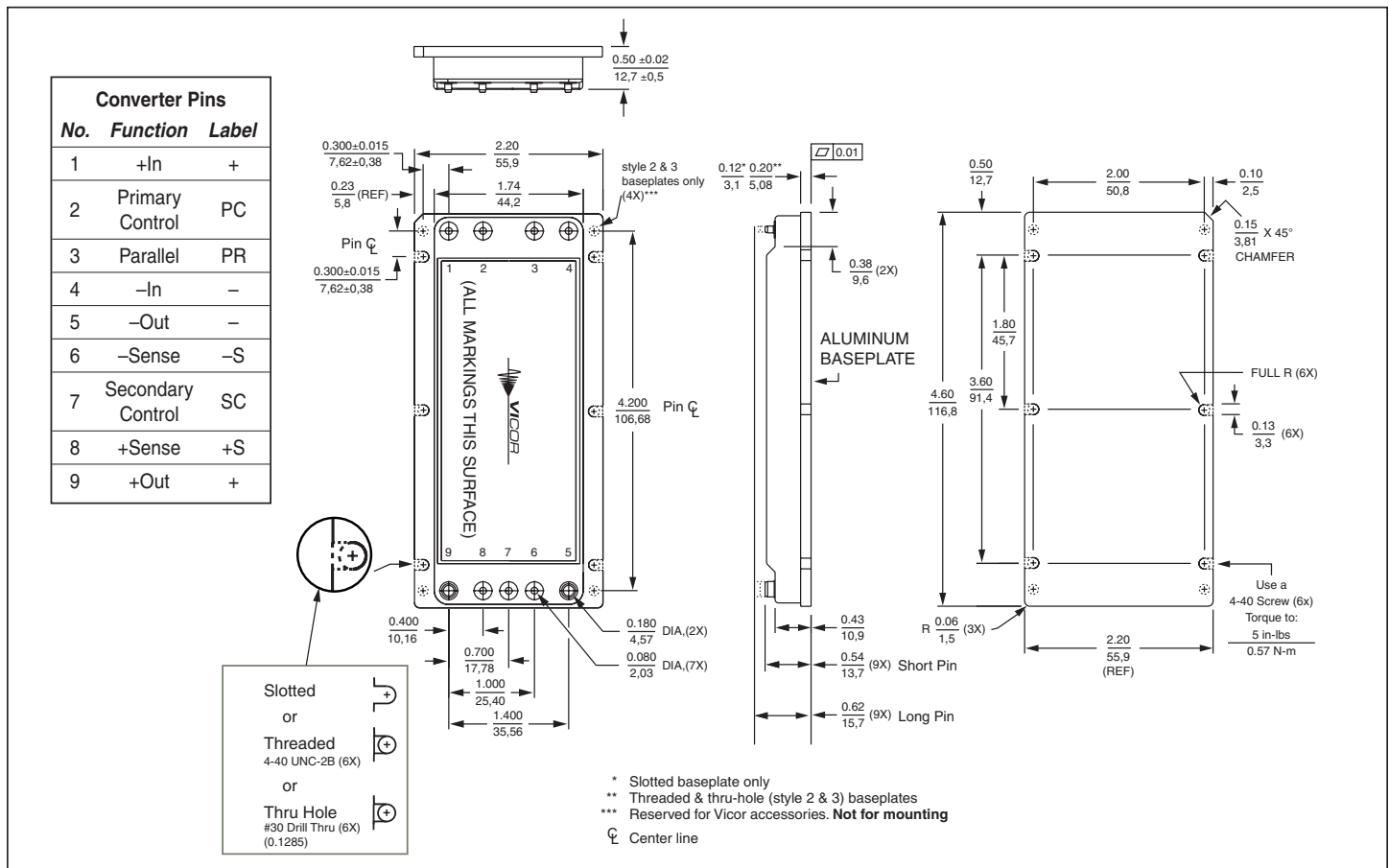


Figure 13 — Module outline

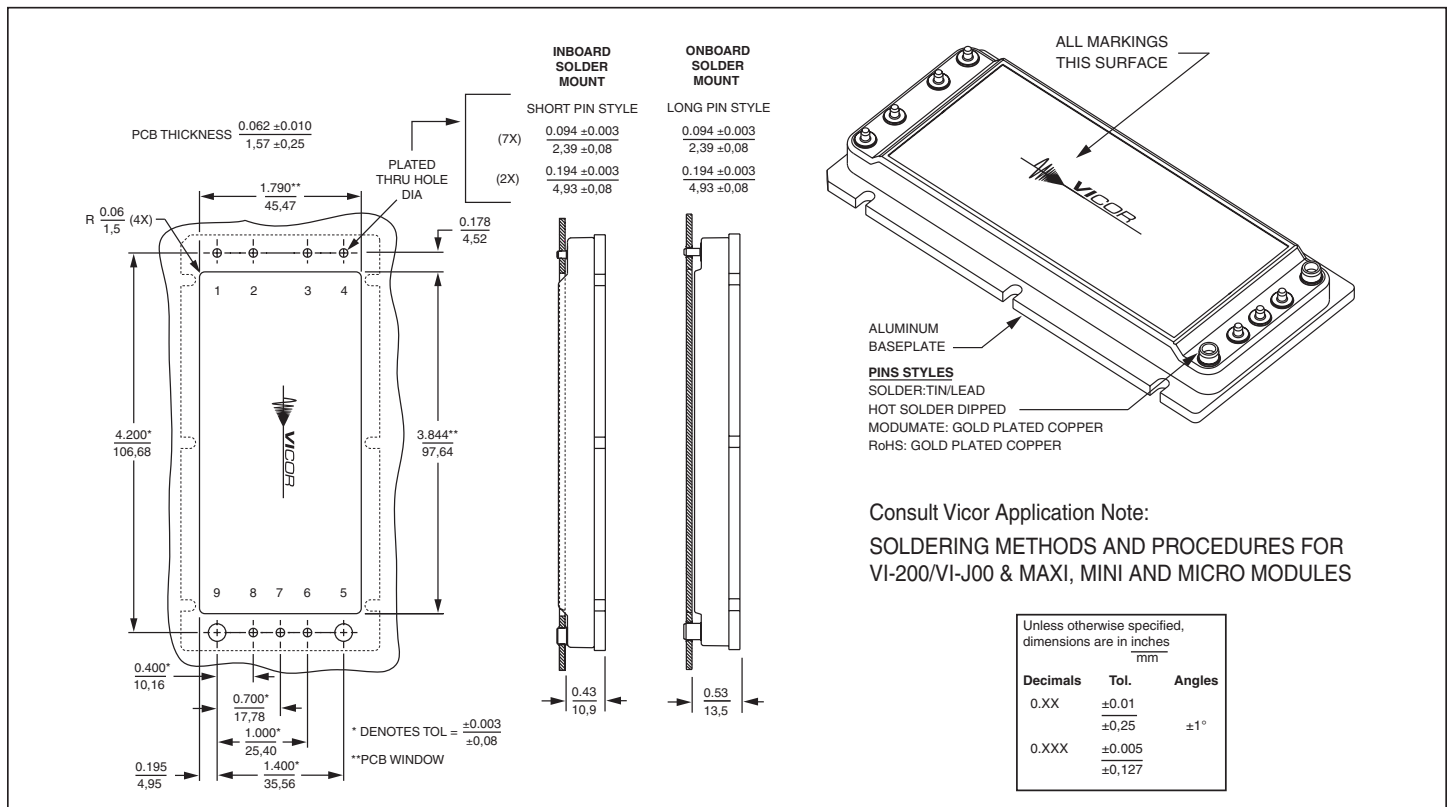


Figure 14 — PCB mounting specifications

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