

## Features

- 100°C baseplate operation
- 48, 352 and 384 V Bus Converters
- High density – up to 390 w/in<sup>3</sup>
- Small footprint – 1.64 and 2.08 in<sup>2</sup>
- Height above board – 0.37 in (9.5 mm)
- Efficiency up to 96%
- Isolated output
- No output filtering required
- <1  $\mu$ s transient response
- Fast transient response
- Lead free wave solder compatible
- Agency approvals



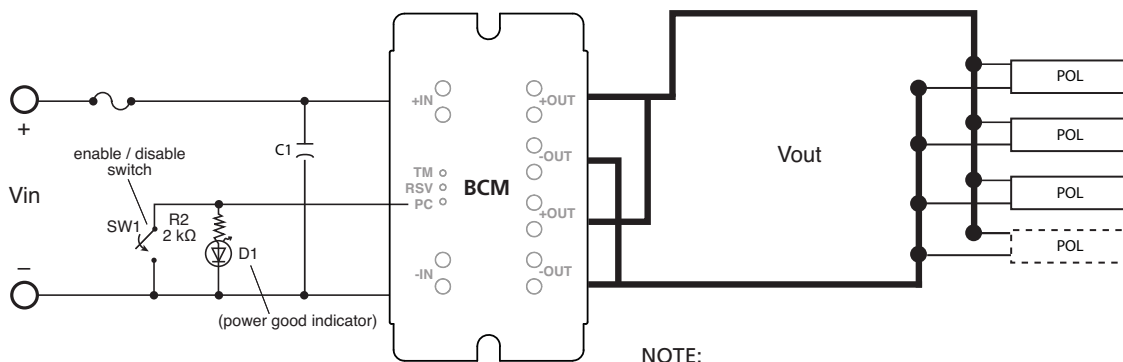
## Product Description

VI BRICK BCM modules use advanced Sine Amplitude Converter™ (SAC™) technology, thermally enhanced packaging technologies, and advanced manufacturing processes to provide high power density and efficiency, superior transient response, and improved thermal management. These modules can be used to provide an isolated intermediate bus to power non-isolated POL converters and due to the fast response time and low noise of the BCM, capacitance can be reduced or eliminated near the load.

| Model Number    | Input Voltage (V) | Output Voltage (V) | Output Power (W) | Output Current (A) | Efficiency (%) |           | Output Ripple (mV) |           |
|-----------------|-------------------|--------------------|------------------|--------------------|----------------|-----------|--------------------|-----------|
|                 |                   |                    |                  |                    | 50% Load       | 100% Load | 50% Load           | 100% Load |
| BC048A015T014FP | 38 – 55           | 1.19 – 1.71        | 135              | 90                 | 91.5           | 91.1      | 70                 | 110       |
| BC048A030T021FP | 38 – 55           | 2.38 – 3.43        | 210              | 70                 | 95.0           | 94.2      | 50                 | 65        |
| BC048A040T020FP | 38 – 55           | 3.17 – 4.58        | 200              | 50                 | 94.8           | 94.4      | 170                | 220       |
| BC048A060T024FP | 38 – 55           | 4.75 – 6.87        | 240              | 40                 | 95.6           | 94.6      | 98                 | 170       |
| BC048A080T024FP | 38 – 55           | 6.33 – 9.16        | 240              | 30                 | 96.0           | 95.8      | 70                 | 140       |
| BC048A096T024FP | 38 – 55           | 7.60 – 11.0        | 240              | 25                 | 96.2           | 96.2      | 110                | 180       |
| BC048A120T030FP | 38 – 55           | 9.50 – 13.8        | 300              | 25                 | 95.1           | 95.6      | 100                | 150       |
| BC048A160T024FP | 38 – 55           | 12.7 – 18.3        | 240              | 15                 | 96.0           | 95.7      | 107                | 150       |
| BC048A240T030FP | 38 – 53           | 19.0 – 26.5        | 300              | 12                 | 95.7           | 95.9      | 85                 | 150       |
| BC048A320T030FP | 38 – 55           | 25.3 – 36.7        | 300              | 9                  | 96.5           | 96.2      | 115                | 180       |
| BC048A480T030FP | 38 – 55           | 38.0 – 55.0        | 300              | 6                  | 96.7           | 96.4      | 95                 | 190       |
| BC352A110T024FP | 330 – 365         | 10.3 – 11.4        | 240              | 21.8               | 95.6           | 95.8      | 140                | 240       |
| BC352A110T030FP | 330 – 365         | 10.3 – 11.4        | 300              | 27.2               | 95.8           | 95.2      | 110                | 200       |
| BC384A120T030FP | 360 – 400         | 11.25 – 12.5       | 300              | 25                 | 95.2           | 95.3      | 100                | 195       |

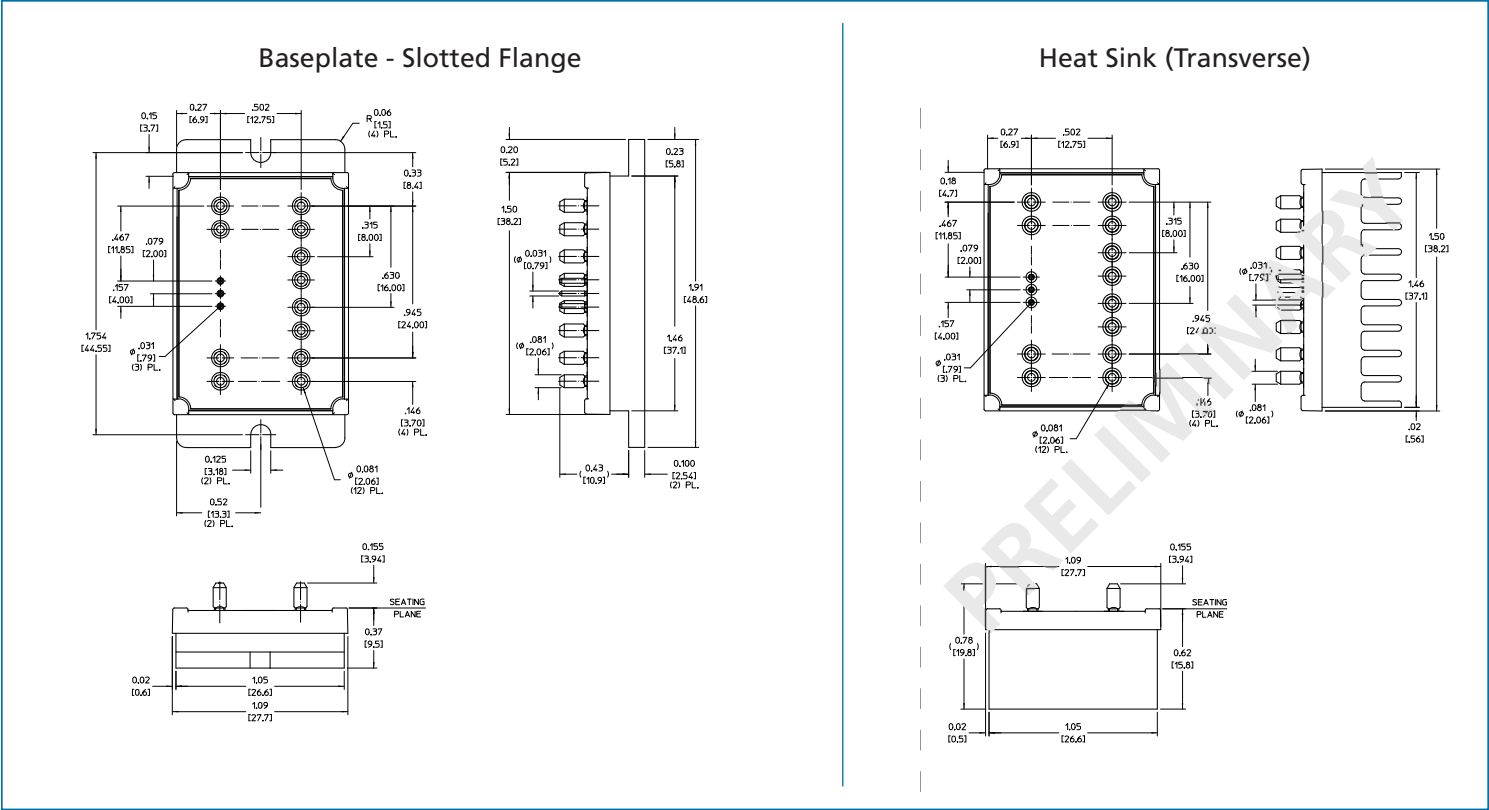
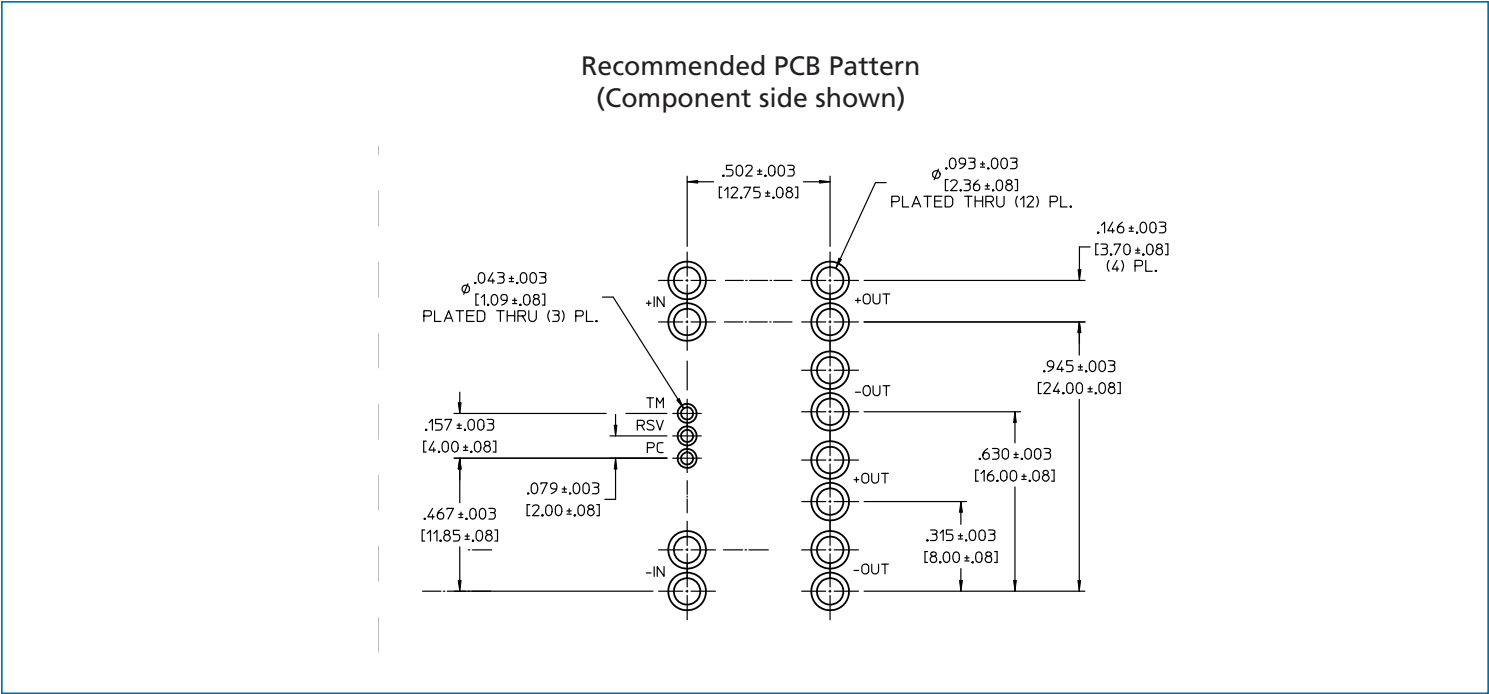
Note: See individual data sheets for additional model specifications and configurations.

## Typical Application



### NOTE:

Vin : 48 (38 – 55) Vdc; Vout = 1.5 – 48 Vdc; C1 = 47  $\mu$ F  
 Vin : 352 (330 – 365) Vdc; Vout = 10.3 – 11.4 Vdc; C1 = 22  $\mu$ F  
 Vin : 384 (360 – 400) Vdc; Vout = 11.25 – 12.5 Vdc; C1 = 22  $\mu$ F



The products described on this document are protected by the following U.S. Patents Numbers: 5,945,130; 6,403,009; 6,710,257; 6,911,848; 6,930,893; 6,934,166; 6,940,013; 6,969,909; 7,038,917; 7,166,898; 7,187,263; D496,906; D505,114; D506,438; D509,472