



## 25 to 600 Watts DC-DC Converters Single, Dual, Triple Output Chassis Mount

### Features & Benefits

- RoHS compliant (VE versions)
- Inputs: 10 to 400V<sub>DC</sub>
- Any output, 1 to 95V<sub>DC</sub>
- cULus, cTÜVus, CE Marked
- 80 – 90% Efficiency (Typical)
- Up to 27 W/In<sup>3</sup>
- 1 Up:  
2.58" x 2.5" x 0.62" (Junior)  
4.9" x 2.5" x 0.62" (Full Size)
- 2 Up:  
2.58" x 4.9" x 0.62" (Junior)  
4.9" x 4.9" x 0.62" (Full Size)
- 3 Up:  
2.58" x 7.3" x 0.62" (Junior)  
4.9" x 7.3" x 0.62" (Full Size)
- Low noise ZCS power architecture
- Booster versions available for expanded output power – full size only (add B to part number)  
Example: VI-LBxx-xx

### Product Highlights

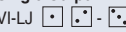
Vicor's MegaMod and MegaMod Jr. Families of single, dual and triple output DC-DC converters provide power system designers with cost effective, high performance, off-the-shelf solutions to applications that might otherwise require a custom supply.

Incorporating standard VI-200 or VI-J00 Family converters in rugged, chassis mount packages, MegaMod and MegaMod Jr.'s can be ordered with single, dual or triple outputs, having a combined output power of up to 600W. Totally isolated outputs eliminate efficiency penalties and output interaction problems.

For on-line product configuration visit:

[MegaMod / MI-MegaMod DC-DC Converters Configurator](#)

### Configuration Chart

| Substitute VE- for VI- for RoHS compliant versions                                      |              |              |                                                                                           |              |              |
|-----------------------------------------------------------------------------------------|--------------|--------------|-------------------------------------------------------------------------------------------|--------------|--------------|
| Full-Size Modules – MegaMod                                                             |              |              | Junior-Size Modules – MegaMod Jr                                                          |              |              |
| Configuration                                                                           | Output Power | # of Modules | Configuration                                                                             | Output Power | # of Modules |
| <b>Single Output</b>                                                                    |              |              | <b>Single Output</b>                                                                      |              |              |
| VI-L   | 50 – 200W    | 1            | VI-LJ  | 25 – 100W    | 1            |
| VI-M   | 100 – 400W   | 2            |                                                                                           |              |              |
| VI-N   | 300 – 600W   | 3            |                                                                                           |              |              |
| <b>Dual Output</b>                                                                      |              |              | <b>Dual Output</b>                                                                        |              |              |
| VI-P   | 100 – 400W   | 2            | VI-PJ  | 50 – 200W    | 2            |
| VI-Q   | 150 – 600W   | 3            |                                                                                           |              |              |
| <b>Triple Output</b>                                                                    |              |              | <b>Triple Output</b>                                                                      |              |              |
| VI-RJ  | 150 – 600W   | 3            | VI-RJ  | 75 – 300W    | 3            |

#### Input Voltage

| Input Range Full Power |                        | Maximum Power (see chart below) |             | Low Line 75% Max Power Transient <sup>[a]</sup> |                          |
|------------------------|------------------------|---------------------------------|-------------|-------------------------------------------------|--------------------------|
| Nominal                | Input Range Full Power | MegaMod                         | MegaMod Jr. | 75% Max Power                                   | Transient <sup>[a]</sup> |
| 0 = 12V <sup>[b]</sup> | 10 – 20V               | (4)                             | (1)         | n/a                                             | 22                       |
| V = 24V <sup>[b]</sup> | 10 – 36V               | (2)                             | (11)        | n/a                                             | n/a                      |
| 1 = 24V <sup>[d]</sup> | 21 – 32V               | (8)                             | (6)         | 18V                                             | 36                       |
| W = 24V <sup>[d]</sup> | 18 – 36V               | (8)                             | (6)         | n/a                                             | n/a                      |
| 2 = 36V                | 21 – 56V               | (6)                             | (1)         | 18V                                             | 60                       |
| 3 = 48V                | 42 – 60V               | (10)                            | (6)         | 36V                                             | 72                       |
| N = 48V                | 36 – 76V               | (10)                            | (5)         | n/a                                             | n/a                      |
| 4 = 72V                | 55 – 100V              | (9)                             | (6)         | 45V                                             | 110                      |
| T = 110V               | 66 – 160V              | (8)                             | (5)         | n/a                                             | n/a                      |
| 5 = 150V               | 100 – 200V             | (9)                             | (6)         | 85V                                             | 215                      |
| 6 = 300V               | 200 – 400V             | (10)                            | (6)         | 170V                                            | 425                      |
| 7 = 150/300V           | 100 – 375V             | (5)                             | (1)         | 90V                                             | n/a                      |

| Max. Output Per Module | 5 – 7.5V Outputs    | >7.5V Outputs | <5V Outputs |
|------------------------|---------------------|---------------|-------------|
| (1)                    | 50W                 | 75W           | 10A         |
| (2)                    | 50W <sup>[e]</sup>  | 75W           | 15A         |
| (4)                    | 75W                 | 75W           | 15A         |
| (5)                    | 75W                 | 100W          | 20A         |
| (6)                    | 100W <sup>[f]</sup> | 100W          | 20A         |
| (7)                    | 100W                | 150W          | 30A         |
| (8)                    | 150W                | 150W          | 30A         |
| (9)                    | 150W                | 200W          | 40A         |
| (10)                   | 200W                | 200W          | 40A         |
| (11)                   | 50W                 | 50W           | 10A         |

#### Output Voltage

Z = 2V  
Y = 3.3V  
O = 5V  
X = 5.2V  
W = 5.5V  
V = 5.8V  
T = 6.5V  
R = 7.5V  
M = 10V  
1 = 12V  
P = 13.8V  
2 = 15V  
N = 18.5V  
3 = 24V  
L = 28V  
J = 36V  
K = 40V  
4 = 48V  
H = 52V  
F = 72V  
D = 85V  
B = 95V

[a] Transient voltage for 1 second.

[b] Single output configurations of 225W are limited to +55°C ambient and are available by special order.

[c] Dual and triple output configurations totaling 225W are limited to +55°C ambient.

[d] Single, dual, and triple output configurations totaling 450W are limited to +55°C.

[e] 7.5V output is 75W

[f] 6.5V and 7.5V output is 75W

#### Product Grade Temperature (°C)

| MegaMod        | MegaMod Jr. |
|----------------|-------------|
| E = –10 to +85 | –10 to +100 |
| C = –25 to +85 | –25 to +100 |
| I = –40 to +85 | –40 to +100 |
| M = –55 to +85 | –55 to +100 |

Refers to Baseplate Temperature

#### Output Power/Current

| V <sub>OUT</sub> ≥ 5V | V <sub>OUT</sub> < 5V |
|-----------------------|-----------------------|
| W = 100W              | W = 20A               |
| V = 150W              | V = 30A               |
| U = 200W              | U = 40A               |
| S = 300W              | S = 60A               |
| Q = 400W              | Q = 80A               |

#### Output Power/Current

| MegaMod               |                       | MegaMod Jr.           |                       |
|-----------------------|-----------------------|-----------------------|-----------------------|
| V <sub>OUT</sub> ≥ 5V | V <sub>OUT</sub> < 5V | V <sub>OUT</sub> ≥ 5V | V <sub>OUT</sub> < 5V |
| Y = 50W               | Y = 10A               | Z = 25W               | Z = 5A                |
| X = 75W               | X = 15A               | Y = 50W               | Y = 10A               |
| W = 100W              | W = 20A               | X = 75W               | X = 15A               |
| V = 150W              | V = 30A               | W = 100W              | W = 20A               |
| U = 200W              | U = 40A               |                       |                       |

#### Output Power/Current

| V <sub>OUT</sub> ≥ 5V | V <sub>OUT</sub> < 5V |
|-----------------------|-----------------------|
| S = 300W              | S = 60A               |
| P = 450W              | P = 90A               |
| M = 600W              | M = 120A              |

## MegaMod Specifications

(typical at T<sub>BP</sub> = 25°C, nominal line, 75% load, unless otherwise specified)

## INPUT SPECIFICATIONS

| Parameter                           | MegaMod (E-Grade) |                                                |     | MegaMod (C-, L-, M-Grade) |                                                |                      | Unit            | Test Conditions       |
|-------------------------------------|-------------------|------------------------------------------------|-----|---------------------------|------------------------------------------------|----------------------|-----------------|-----------------------|
|                                     | Min               | Typ                                            | Max | Min                       | Typ                                            | Max                  |                 |                       |
| Inrush charge                       |                   | 120x10 <sup>-6</sup>                           |     |                           | 120x10 <sup>-6</sup>                           | 200x10 <sup>-6</sup> | Coulombs        | Nom. line, per module |
| Input reflected ripple current – pp |                   | 10%                                            |     |                           | 10%                                            |                      | I <sub>IN</sub> | Nom. line, full load  |
| Input ripple rejection              |                   | 25+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ |     |                           | 30+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ |                      | dB              | 120Hz, nom. line      |
|                                     |                   |                                                |     |                           | 20+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ |                      | dB              | 2400Hz, nom. line     |
| No load power dissipation           |                   | 1.35                                           | 2   |                           | 1.35                                           | 2                    | Watts           | Per module            |

## OUTPUT SPECIFICATIONS

| Parameter                              | MegaMod (E-Grade) |      |      | MegaMod (C-, L-, M-Grade) |       |      | Units            | Test Conditions     |
|----------------------------------------|-------------------|------|------|---------------------------|-------|------|------------------|---------------------|
|                                        | Min               | Typ  | Max  | Min                       | Typ   | Max  |                  |                     |
| Setpoint accuracy                      |                   | 1%   | 2%   |                           | 0.5%  | 1%   | V <sub>NOM</sub> |                     |
| Load / line regulation                 |                   |      | 0.5% |                           | 0.05% | 0.2% | V <sub>NOM</sub> | LL to HL, 10% to FL |
|                                        |                   |      | 1%   |                           | 0.2%  | 0.5% | V <sub>NOM</sub> | LL to HL, NL to 10% |
| Output temperature drift               |                   | 0.02 |      |                           | 0.01  | 0.02 | % / °C           | Over rated temp.    |
| Long term drift                        |                   | 0.02 |      |                           | 0.02  |      | %/1K hours       |                     |
| Output ripple - pp                     |                   |      |      |                           |       |      |                  |                     |
| 2V, 3.3V                               |                   |      | 150  |                           | 60    | 100  | mV               | 20MHz bandwidth     |
| 5V                                     |                   |      | 5%   |                           | 2%    | 3%   | V <sub>NOM</sub> | 20MHz bandwidth     |
| 10 – 95V                               |                   |      | 3%   |                           | 0.75% | 1.5% | V <sub>NOM</sub> | 20MHz bandwidth     |
| Output voltage trimming <sup>[a]</sup> | 50%               |      | 110% | 50%                       |       | 110% | V <sub>NOM</sub> |                     |
| Total remote sense compensation        | 0.5               |      |      | 0.5                       |       |      | Volts            | 0.25V max. neg. leg |
| OVP setpoint <sup>[b]</sup>            |                   | 125% |      | 115%                      | 125%  | 135% | V <sub>NOM</sub> | Recycle power       |
| Current limit                          | 105%              |      | 135% | 105%                      |       | 125% | I <sub>NOM</sub> | Automatic restart   |
| Short circuit current <sup>[c]</sup>   | 20%               |      | 140% | 20%                       |       | 130% | I <sub>NOM</sub> |                     |

<sup>[a]</sup> 10V to 15V outputs, or “V” input range have standard trim range ±10%. Consult factory for wider trim range. 95V output -50 + 0% trim range.<sup>[b]</sup> 131% typical for booster modules.<sup>[c]</sup> Output voltages of 5V or less incorporate foldback current limiting; outputs of 10V and above contain straight-line limiting.

## CONTROL PIN SPECIFICATIONS

| Parameter                    | MegaMod (E-Grade) |                 |      | MegaMod (C-, L-, M-Grade) |                 |      | Units | Test Conditions    |
|------------------------------|-------------------|-----------------|------|---------------------------|-----------------|------|-------|--------------------|
|                              | Min               | Typ             | Max  | Min                       | Typ             | Max  |       |                    |
| Gate out impedance           |                   | 50              |      |                           | 50              |      | Ohms  |                    |
| Gate in impedance            |                   | 10 <sup>3</sup> |      |                           | 10 <sup>3</sup> |      | Ohms  |                    |
| Gate in open circuit voltage |                   | 6               |      |                           | 6               |      | Volts | Use open collector |
| Gate in low threshold        | 0.65              |                 |      | 0.65                      |                 |      | Volts |                    |
| Gate in low current          |                   |                 | 6    |                           |                 | 6    | mA    |                    |
| Power sharing accuracy       | 0.95              |                 | 1.05 | 0.95                      |                 | 1.05 |       |                    |

## MegaMod Specifications (Cont.)

## DIELECTRIC WITHSTAND CHARACTERISTICS

| Parameter           | MegaMod (E-Grade) |     |     | MegaMod (C-, I-, M-Grade) |     |     | Unit             | Test Conditions   |
|---------------------|-------------------|-----|-----|---------------------------|-----|-----|------------------|-------------------|
|                     | Min               | Typ | Max | Min                       | Typ | Max |                  |                   |
| Input to output     | 3,000             |     |     | 3,000                     |     |     | V <sub>RMS</sub> | Baseplate earthed |
| Output to baseplate | 500               |     |     | 500                       |     |     | V <sub>RMS</sub> |                   |
| Input to baseplate  | 1,500             |     |     | 1,500                     |     |     | V <sub>RMS</sub> |                   |

## THERMAL CHARACTERISTICS

| Parameter                       | MegaMod (E-Grade) |        |     | MegaMod (C-, I-, M-Grade) |          |     | Units   | Test Conditions                               |
|---------------------------------|-------------------|--------|-----|---------------------------|----------|-----|---------|-----------------------------------------------|
|                                 | Min               | Typ    | Max | Min                       | Typ      | Max |         |                                               |
| Efficiency                      |                   | 78-88% |     |                           | 80 – 90% |     |         |                                               |
| Baseplate to chassis            |                   | 0.1    |     |                           | 0.1      |     | °C/Watt |                                               |
| Thermal Shutdown (drivers only) | 90                | 95     | 105 | 90                        | 95       | 105 | °C      | Baseplate (Cool and recycle power to restart) |

## MECHANICAL SPECIFICATIONS

| Parameter | MegaMod (E-Grade) |           |     | MegaMod (C-, I-, M-Grade) |           |     | Units          | Test Conditions |
|-----------|-------------------|-----------|-----|---------------------------|-----------|-----|----------------|-----------------|
|           | Min               | Typ       | Max | Min                       | Typ       | Max |                |                 |
| Weight    |                   |           |     |                           |           |     |                |                 |
| 1 Up      |                   | 9.0 (255) |     |                           | 9.0 (255) |     | Ounces (Grams) |                 |
| 2 Up      |                   | 1.2 (545) |     |                           | 1.2 (545) |     | Lbs. (Grams)   |                 |
| 3 Up      |                   | 1.7 (772) |     |                           | 1.7 (772) |     | Lbs. (Grams)   |                 |

## MegaMod Jr. Specifications

(typical at T<sub>BP</sub> = 25°C, nominal line, 75% load, unless otherwise specified)

## INPUT SPECIFICATIONS

| Parameter                           | MegaMod Jr. (E-Grade) |                                                |                      | MegaMod Jr. (C-, I-, M-Grade) |                                                |                      | Unit            | Test Conditions       |
|-------------------------------------|-----------------------|------------------------------------------------|----------------------|-------------------------------|------------------------------------------------|----------------------|-----------------|-----------------------|
|                                     | Min                   | Typ                                            | Max                  | Min                           | Typ                                            | Max                  |                 |                       |
| Inrush charge                       |                       | 60x10 <sup>-6</sup>                            | 100x10 <sup>-6</sup> |                               | 60x10 <sup>-6</sup>                            | 100x10 <sup>-6</sup> | Coulombs        | Nom. line, per module |
| Input reflected ripple current — pp |                       | 10%                                            |                      |                               | 10%                                            |                      | I <sub>IN</sub> | Nom. line, full load  |
| Input ripple rejection              |                       | 25+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ |                      |                               | 30+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ |                      | dB              | 120Hz, nom. line      |
|                                     |                       |                                                |                      |                               | 20+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ |                      | dB              | 2400Hz, nom. line     |
| No load power dissipation           |                       | 1.35                                           | 2                    |                               | 1.35                                           | 2                    | Watts           | Per module            |

## OUTPUT SPECIFICATIONS

| Parameter                       | MegaMod Jr. (E-Grade) |      |      | MegaMod Jr. (C-, I-, M-Grade) |       |      | Units            | Test Conditions     |
|---------------------------------|-----------------------|------|------|-------------------------------|-------|------|------------------|---------------------|
|                                 | Min                   | Typ  | Max  | Min                           | Typ   | Max  |                  |                     |
| Setpoint accuracy               |                       | 1.0% | 2.0% |                               | 0.5%  | 1%   | V <sub>NOM</sub> |                     |
| Load/line regulation            |                       |      | 0.5% |                               | 0.05% | 0.2% | V <sub>NOM</sub> | LL to HL, 10% to FL |
|                                 |                       |      | 1.0% |                               | 0.2%  | 0.5% | V <sub>NOM</sub> | LL to HL, NL to 10% |
| Output temperature drift        |                       | 0.02 |      |                               | 0.01  |      | %/°C             | Over rated temp.    |
| Long term drift                 |                       | 0.02 |      |                               | 0.02  |      | %/1K hours       |                     |
| Output ripple, pp               |                       |      |      |                               |       |      |                  |                     |
| 2V, 3.3V                        |                       | 200  |      |                               | 100   | 150  | mV               | 20MHz bandwidth     |
| 5V                              |                       | 5%   |      |                               | 2%    | 3%   | V <sub>NOM</sub> | 20MHz bandwidth     |
| 10V – 95V                       |                       | 3%   |      |                               | 0.75% | 1.5% | V <sub>NOM</sub> | 20MHz bandwidth     |
| Output voltage trimming [a]     | 50%                   |      | 110% | 50%                           |       | 110% | V <sub>NOM</sub> |                     |
| Total remote sense compensation | 0.5                   |      |      | 0.5                           |       |      | Volts            | 0.25V max. neg. leg |
| OVP setpoint                    |                       | N/A  |      |                               | N/A   |      |                  |                     |
| Current limit                   | 105%                  |      | 135% | 105%                          |       | 125% | I <sub>NOM</sub> | Automatic restart   |
| Short circuit current           | 105%                  |      | 140% | 105%                          |       | 130% | I <sub>NOM</sub> |                     |

[a] 10V to 15V outputs, standard trim range ±10%. Consult factory for wider trim range. 95 Vout cannot be trimmed up.

## CONTROL PIN SPECIFICATIONS

| Parameter              | MegaMod Jr. (E-Grade) |       |     | MegaMod Jr. (C-, I-, M-Grade) |       |     | Units | Test Conditions    |
|------------------------|-----------------------|-------|-----|-------------------------------|-------|-----|-------|--------------------|
|                        | Min                   | Typ   | Max | Min                           | Typ   | Max |       |                    |
| Gate out impedance     |                       | 50    |     |                               | 50    |     | Ohms  |                    |
| Gate in impedance      |                       | 1,000 |     |                               | 1,000 |     | Ohms  |                    |
| Gate in high threshold |                       | 6     |     |                               | 6     |     | Volts | Use open collector |
| Gate in low threshold  | 0.65                  |       |     | 0.65                          |       |     | Volts |                    |
| Gate in low current    |                       |       | 6   |                               |       | 6   | mA    |                    |

## MegaMod Jr. Specifications (Cont.)

## DIELECTRIC WITHSTAND CHARACTERISTICS

| Parameter           | MegaMod Jr. (E-Grade) |     |     | MegaMod Jr. (C-, I-, M-Grade) |     |     | Unit             | Test Conditions   |
|---------------------|-----------------------|-----|-----|-------------------------------|-----|-----|------------------|-------------------|
|                     | Min                   | Typ | Max | Min                           | Typ | Max |                  |                   |
| Input to output     | 3,000                 |     |     | 3,000                         |     |     | V <sub>RMS</sub> | Baseplate earthed |
| Output to baseplate | 500                   |     |     | 500                           |     |     | V <sub>RMS</sub> |                   |
| Input to baseplate  | 1,500                 |     |     | 1,500                         |     |     | V <sub>RMS</sub> |                   |

## THERMAL CHARACTERISTICS

| Parameter            | MegaMod Jr. (E-Grade) |          |     | MegaMod Jr. (C-, I-, M-Grade) |          |     | Units   | Test Conditions |
|----------------------|-----------------------|----------|-----|-------------------------------|----------|-----|---------|-----------------|
|                      | Min                   | Typ      | Max | Min                           | Typ      | Max |         |                 |
| Efficiency           |                       | 78 – 88% |     |                               | 80 – 90% |     |         |                 |
| Baseplate to chassis |                       | 0.2      |     |                               | 0.2      |     | °C/Watt |                 |

## MECHANICAL SPECIFICATIONS

| Parameter | MegaMod Jr. (E-Grade) |            |     | MegaMod Jr. (C-, I-, M-Grade) |            |     | Units          | Test Conditions |
|-----------|-----------------------|------------|-----|-------------------------------|------------|-----|----------------|-----------------|
|           | Min                   | Typ        | Max | Min                           | Typ        | Max |                |                 |
| Weight    |                       |            |     |                               |            |     |                |                 |
| 1 Up      |                       | 4.5 (127)  |     |                               | 4.5 (127)  |     | Ounces (Grams) |                 |
| 2 Up      |                       | 8.8 (250)  |     |                               | 8.8 (250)  |     | Ounces (Grams) |                 |
| 3 Up      |                       | 13.3 (377) |     |                               | 13.3 (377) |     | Ounces (Grams) |                 |

## MegaMod Mechanical Specifications

### Inputs

|               |               |
|---------------|---------------|
| 1 -Input      | 5 Gate Out #2 |
| 2 Gate Out #1 | 6 Gate In #2  |
| 3 Gate In #1  | 7 Gate Out #3 |
| 4 +Input      | 8 Gate In #3  |

### Outputs

| Output #1 | Output #2 | Output #3 |
|-----------|-----------|-----------|
| A -Output | F -Output | L -Output |
| B -Sense* | G -Sense  | M -Sense  |
| C Trim*   | H Trim    | N Trim    |
| D +Sense* | J +Sense  | P +Sense  |
| E +Output | K +Output | Q +Output |

\*For Units with BatMod

B-IMON  
C-ITRIM  
D-VTRIM

### Inputs

### Outputs



Side view (all models)

### L- and LJ-Series

### L- and LJ-Series

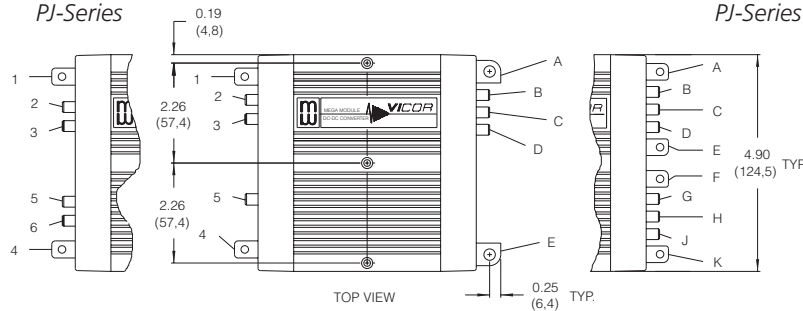


### P- and PJ-Series

### M-Series

### M-Series

### P- and PJ-Series



### Mounting Information

Use #6 machine hardware torqued to 5-7 in-lbs.

### R- and RJ-Series

### Q-Series

### N-Series

### N-Series

### Q-Series

### R- and RJ-Series



| Terminal and Product Model                           | Terminal Style | Screw Size | Recommended Torque |
|------------------------------------------------------|----------------|------------|--------------------|
| -Input, +Input<br>All models                         | PCB            | 8-32 UNC   | 10 in-lb (1.1 N-m) |
| -Output, +Output<br>L-, P-, R-, LJ-, PJ- & RJ-Series | PCB            | 8-32 UNC   | 10 in-lb (1.1 N-m) |
| M- & N-Series                                        | Metal          | 1/4-20 UNC | 65 in-lb (7.2 N-m) |
| Q-Series                                             | PCB            | 8-32 UNC   | 10 in-lb (1.1 N-m) |
| Supervisory<br>All models                            | Metal          | 1/4-20 UNC | 65 in-lb (7.2 N-m) |

Sized to accept AMP Faston® insulated receptacle #2-520184-2

## **Vicor's comprehensive line of power solutions includes high density AC-DC and DC-DC modules and accessory components, fully configurable AC-DC and DC-DC power supplies, and complete custom power systems.**

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## **Life Support Policy**

VICOR'S PRODUCTS ARE NOT AUTHORIZED FOR USE AS CRITICAL COMPONENTS IN LIFE SUPPORT DEVICES OR SYSTEMS WITHOUT THE EXPRESS PRIOR WRITTEN APPROVAL OF THE CHIEF EXECUTIVE OFFICER AND GENERAL COUNSEL OF VICOR CORPORATION. As used herein, life support devices or systems are devices which (a) are intended for surgical implant into the body, or (b) support or sustain life and whose failure to perform when properly used in accordance with instructions for use provided in the labeling can be reasonably expected to result in a significant injury to the user. A critical component is any component in a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system or to affect its safety or effectiveness. Per Vicor Terms and Conditions of Sale, the user of Vicor products and components in life support applications assumes all risks of such use and indemnifies Vicor against all liability and damages.

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