# MegaMod™ & MegaMod Jr.™ Family

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

### Features & Benefits

- RoHS compliant (VE versions)
- Inputs: 10 to 400$V_{DC}$
- Any output, 1 to 95$V_{DC}$
- cULus, cTÜVus, CE Marked
- 80 – 90% Efficiency (Typical)
- Up to 27 W/In$^3$
- 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 |
| **Single Output** | | | **Single Output** | | |
| VI-L ▫ ▫ - ▫ ▫ | 50 – 200W | 1 | VI-LJ ▫ ▫ - ▫ ▫ | 25 – 100W | 1 |
| VI-M ▫ ▫ - ▫ ▫ | 100 – 400W | 2 | | | |
| VI-N ▫ ▫ - ▫ ▫ | 300 – 600W | 3 | | | |
| **Dual Output** | | | **Dual Output** | | |
| VI-P ▫ ▫ ▫ - ▫ ▫ ▫ | 100 – 400W | 2 | VI-PJ ▫ ▫ ▫ - ▫ ▫ ▫ | 50 – 200W | 2 |
| VI-Q ▫ ▫ ▫ - ▫ ▫ ▫ | 150 – 600W | 3 | | | |
| **Triple Output** | | | **Triple Output** | | |
| VI-R ▫ ▫ ▫ ▫ - ▫ ▫ ▫ ▫ | 150 – 600W | 3 | VI-RJ ▫ ▫ ▫ ▫ - ▫ ▫ ▫ ▫ | 75 – 300W | 3 |

#### ▪ Input Voltage

| Nominal | Input Range Full Power | Maximum Power (see chart below) MegaMod | MegaMod Jr. | Low Line 75% Max Power | Transient[a] |
|---|---|---|---|---|---|
| 0 = 12V[b][c] | 10 – 20V | (4) | (1) | n/a | 22 |
| V = 24V[b][c] | 10 – 36V | (2) | (11) | n/a | n/a |
| 1 = 24V[d] | 21 – 32V | (8) | (6) | 18V | 36 |
| W = 24V[d] | 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[e] | 75W | 15A |
| (4) | 75W | 75W | 15A |
| (5) | 75W | 100W | 20A |
| (6) | 100W[f] | 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 |
| 0 = | 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

| $V_{OUT} \geq 5V$ | $V_{OUT} < 5V$ |
|---|---|
| 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. | |
|---|---|---|---|
| $V_{OUT} \geq 5V$ | $V_{OUT} < 5V$ | $V_{OUT} \geq 5V$ | $V_{OUT} < 5V$ |
| 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

| $V_{OUT} \geq 5V$ | $V_{OUT} < 5V$ |
|---|---|
| S = 300W | S = 60A |
| P = 450W | P = 90A |
| M = 600W | M = 120A |

## MegaMod Specifications

(typical at $T_{BP}$ = 25ºC, nominal line, 75% load, unless otherwise specified)

### INPUT SPECIFICATIONS

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

### OUTPUT SPECIFICATIONS

| | MegaMod (E-Grade) | | | MegaMod (C-, I-, M-Grade) | | | | |
|---|---|---|---|---|---|---|---|---|
| **Parameter** | **Min** | **Typ** | **Max** | **Min** | **Typ** | **Max** | **Units** | **Test Conditions** |
| Setpoint accuracy | | 1% | 2% | | 0.5% | 1% | $V_{NOM}$ | |
| Load / line regulation | | | 0.5% | | 0.05% | 0.2% | $V_{NOM}$ | LL to HL, 10% to FL |
| | | | 1% | | 0.2% | 0.5% | $V_{NOM}$ | 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% | $V_{NOM}$ | 20MHz bandwidth |
| 10 – 95V | | | 3% | | 0.75% | 1.5% | $V_{NOM}$ | 20MHz bandwidth |
| Output voltage trimming[a] | 50% | | 110% | 50% | | 110% | $V_{NOM}$ | |
| Total remote sense compensation | 0.5 | | | 0.5 | | | Volts | 0.25V max. neg. leg |
| OVP setpoint[b] | | 125% | | 115% | 125% | 135% | $V_{NOM}$ | Recycle power |
| Current limit | 105% | | 135% | 105% | | 125% | $I_{NOM}$ | Automatic restart |
| Short circuit current[c] | 20% | | 140% | 20% | | 130% | $I_{NOM}$ | |

[a] 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.
[b] 131% typical for booster modules.
[c] Output voltages of 5V or less incorporate foldback current limiting; outputs of 10V and above contain straight-line limiting.

### CONTROL PIN SPECIFICATIONS

| | MegaMod (E-Grade) | | | MegaMod (C-, I-, M-Grade) | | | | |
|---|---|---|---|---|---|---|---|---|
| **Parameter** | **Min** | **Typ** | **Max** | **Min** | **Typ** | **Max** | **Units** | **Test Conditions** |
| Gate out impedance | | 50 | | | 50 | | Ohms | |
| Gate in impedance | | $10^3$ | | | $10^3$ | | 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

| | MegaMod (E-Grade) | | | MegaMod (C-, I-, M-Grade) | | | | |
|---|---|---|---|---|---|---|---|---|
| **Parameter** | **Min** | **Typ** | **Max** | **Min** | **Typ** | **Max** | **Unit** | **Test Conditions** |
| Input to output | 3,000 | | | 3,000 | | | $V_{RMS}$ | Baseplate earthed |
| Output to baseplate | 500 | | | 500 | | | $V_{RMS}$ | |
| Input to baseplate | 1,500 | | | 1,500 | | | $V_{RMS}$ | |

### THERMAL CHARACTERISTICS

| | MegaMod (E-Grade) | | | MegaMod (C-, I-, M-Grade) | | | | |
|---|---|---|---|---|---|---|---|---|
| **Parameter** | **Min** | **Typ** | **Max** | **Min** | **Typ** | **Max** | **Units** | **Test Conditions** |
| 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

| | MegaMod (E-Grade) | | | MegaMod (C-, I-, M-Grade) | | | | |
|---|---|---|---|---|---|---|---|---|
| **Parameter** | **Min** | **Typ** | **Max** | **Min** | **Typ** | **Max** | **Units** | **Test Conditions** |
| 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 $T_{BP}$ = 25°C, nominal line, 75% load, unless otherwise specified)

### INPUT SPECIFICATIONS

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

### OUTPUT SPECIFICATIONS

| | MegaMod Jr. (E-Grade) | | | MegaMod Jr. (C-, I-, M-Grade) | | | | |
|---|---|---|---|---|---|---|---|---|
| **Parameter** | **Min** | **Typ** | **Max** | **Min** | **Typ** | **Max** | **Units** | **Test Conditions** |
| Setpoint accuracy | | 1.0% | 2.0% | | 0.5% | 1% | $V_{NOM}$ | |
| Load/line regulation | | | 0.5% | | 0.05% | 0.2% | $V_{NOM}$ | LL to HL, 10% to FL |
| | | | 1.0% | | 0.2% | 0.5% | $V_{NOM}$ | 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% | $V_{NOM}$ | 20MHz bandwidth |
| 10V – 95V | | 3% | | | 0.75% | 1.5% | $V_{NOM}$ | 20MHz bandwidth |
| Output voltage trimming[a] | 50% | | 110% | 50% | | 110% | $V_{NOM}$ | |
| 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% | $I_{NOM}$ | Automatic restart |
| Short circuit current | 105% | | 140% | 105% | | 130% | $I_{NOM}$ | |

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

### CONTROL PIN SPECIFICATIONS

| | MegaMod Jr. (E-Grade) | | | MegaMod Jr. (C-, I-, M-Grade) | | | | |
|---|---|---|---|---|---|---|---|---|
| **Parameter** | **Min** | **Typ** | **Max** | **Min** | **Typ** | **Max** | **Units** | **Test Conditions** |
| 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

| | MegaMod Jr. (E-Grade) | | | MegaMod Jr. (C-, I-, M-Grade) | | | | |
|---|---|---|---|---|---|---|---|---|
| **Parameter** | **Min** | **Typ** | **Max** | **Min** | **Typ** | **Max** | **Unit** | **Test Conditions** |
| Input to output | 3,000 | | | 3,000 | | | $V_{RMS}$ | Baseplate earthed |
| Output to baseplate | 500 | | | 500 | | | $V_{RMS}$ | |
| Input to baseplate | 1,500 | | | 1,500 | | | $V_{RMS}$ | |

### THERMAL CHARACTERISTICS

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

### MECHANICAL SPECIFICATIONS

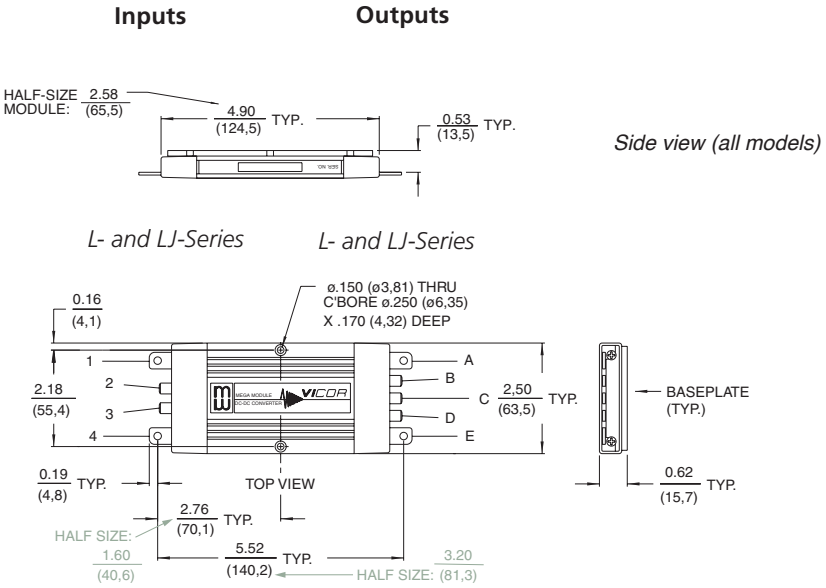
| | MegaMod Jr. (E-Grade) | | | MegaMod Jr. (C-, I-, M-Grade) | | | | |
|---|---|---|---|---|---|---|---|---|
| **Parameter** | **Min** | **Typ** | **Max** | **Min** | **Typ** | **Max** | **Units** | **Test Conditions** |
| Weight | | | | | | | | |
| 1 Up | | 4.5 (127) | | | 4.5 (127) | | Ounces (Grams) | |
| 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 |

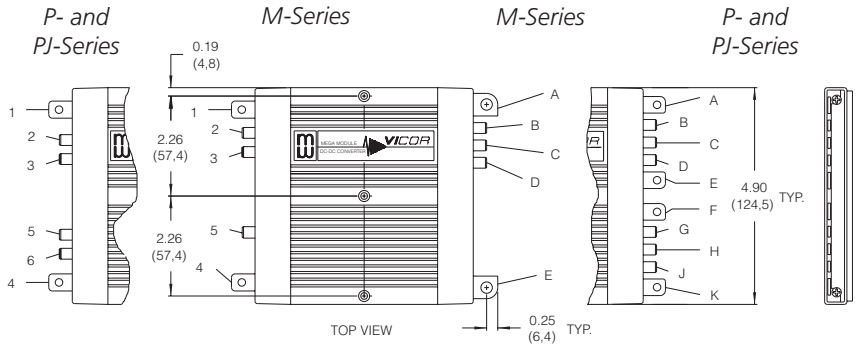
| Outputs | | |
|---|---|---|
| Output #1 | Output #2 | Output #3 |
| A –Output | F –Output | L –Output |
| B –Sense* | G –Sense | M –Sense |
| C Trim* | H Trim | N Trim |
| D +Sense* | J +Sense | P +Sense |
| E +Output | K +Output | Q +Output |

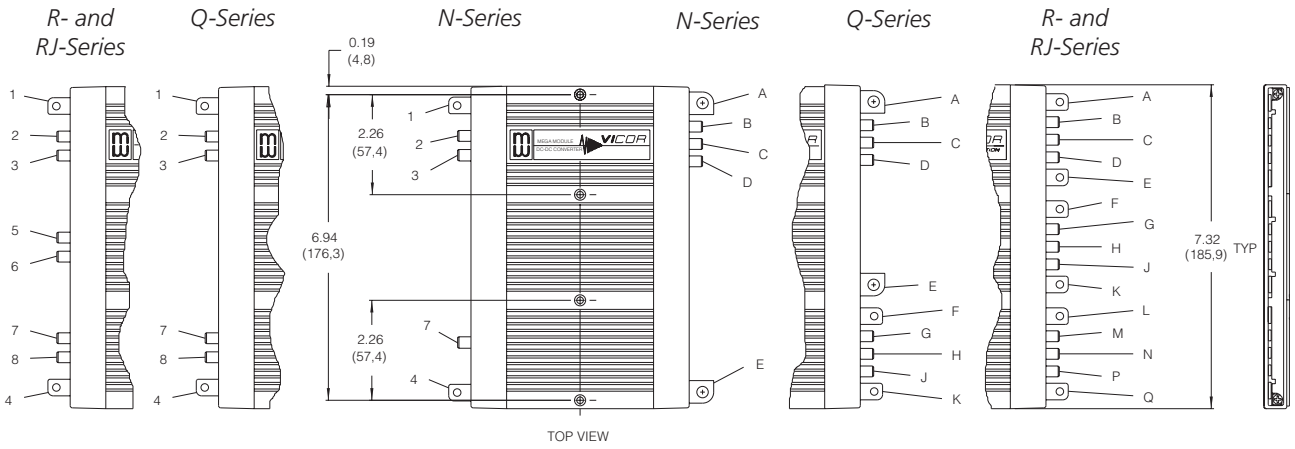
*For Units with BatMod
B-$I_{MON}$
C-$I_{TRIM}$
D-$V_{TRIM}$

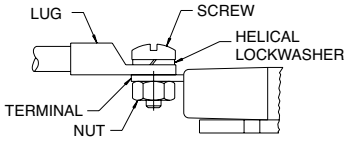



### Mounting Information

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




| Terminal and Product Model | Terminal Style | Screw Size | Recommended Torque |
|---|---|---|---|
| **–Input, +Input** | | | |
| All models | PCB | 8-32 UNC | 10 in-lb (1.1 N-m) |
| **–Output, +Output** | | | |
| 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) |
| | Metal | 1/4-20 UNC | 65 in-lb (7.2 N-m) |
| **Supervisory** All models | 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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VI-PJ30M-EZZ VI-PJ30M-IYX VI-PJ30Y-CYY VI-PJ30Y-EZZ VI-PJ310-EWZ VI-PJ310-EYZ VI-PJ310-EZY VI-PJ310-EZZ VI-PJ311-CWW VI-PJ311-CXX VI-PJ311-CXY VI-PJ311-CYY VI-PJ311-CZX VI-PJ311-CZZ VI-PJ311-EWY VI-PJ311-EXX VI-PJ311-EYZ VI-PJ311-EZZ VI-RJ0011-IYZZ VI-RJ0011-IZYY VI-RJ0011-IZZZ VI-RJ0011-MZZZ VI-RJ0012-CZZZ VI-RJ0012-EYYY VI-R5013-CYYW VI-R5014-CYYU VI-R5022-CVVW VI-R5022-CVVX VI-R5022-CVYY VI-R5022-CWWW VI-R5022-CYYY VI-R5022-EWXX VI-R5022-EYYY VI-R5022-IWXX VI-R5022-IWXY VI-R5022-IWYY VI-R5022-IYYY VI-RJ0000-EYZZ VI-RJ0000-EZZZ VI-RJ0000-IYYZ VI-RJ0001-CYYZ VI-RJ0001-CYZZ VI-RJ0001-CZZY VI-RJ0001-CZZZ VI-RJ0001-EYYY VI-RJ0001-EYZZ VI-RJ0001-EZZZ VI-RJ0001-IYYZ VI-RJ0001-IYZZ VI-RJ0002-CYYY VI-PJ111-CYZ VI-PJ111-CZZ VI-PJ111-EWW VI-PJ111-EXX VI-PJ111-EYY VI-PJ111-EYZ VI-PJ111-EZZ VI-PJ111-IYY VI-PJ111-IZZ VI-PJ111-MZZ VI-PJ112-EXX VI-PJ113-CYY VI-PJ113-CZY VI-PJ113-CZZ VI-PJ113-EYY VI-PJ113-EZZ VI-PJ113-IYY VI-PJ114-CYY VI-PJ114-CZZ VI-PJ11L-CZW VI-PJ11Y-CZY VI-PJ120-CWX VI-PJ120-CWZ VI-PJ120-CXZ VI-PJ120-CYY VI-PJ120-EWZ VI-R6333-CUUU VI-R633M-CVVW VI-R63R2-EVWV VI-R63R2-EVWW VI-R6440-EUUY VI-R6444-CUUU VI-R6444-CVVV VI-R6444-EUUU VI-R6444-EVVV VI-R644L-CWWW VI-RJ0022-EZYZ VI-RJ0022-EZZZ VI-RJ0022-IZZZ VI-RJ0023-EYYY VI-RJ0023-EZYY VI-RJ0023-EZZX VI-RJ0023-EZZY VI-RJ0023-EZZZ VI-RJ002L-EYYY VI-RJ002L-IYYY VI-RJ0031-CZZZ VI-RJ0033-CZYY VI-RJ00M2-CZZZ VI-RJ00MN-EZZY

LifeElectronics
Живое партнерство

**ООО «ЛайфЭлектроникс»** **“LifeElectronics” LLC**

*ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703*

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- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
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