



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

Features & Benefits

- RoHS compliant (VE versions)
- Inputs: 10 to 400V_{DC}
- Any output, 1 to 95V_{DC}
- cULus, cTÜVus, CE Marked
- 80 – 90% Efficiency (Typical)
- Up to 27 W/In³
- 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) | | Low Line 75% Max Power Transient ^[a] | |
|---------------------------|------------------------|---------------------------------|-------------|---|-----|
| | | MegaMod | MegaMod Jr. | | |
| 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 |
| 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

| MegaMod | | MegaMod Jr. | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| V _{OUT} ≥ 5V | V _{OUT} < 5V | V _{OUT} ≥ 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} ≥ 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

| V _{OUT} ≥ 5V | V _{OUT} < 5V |
|-----------------------|-----------------------|
| S = 300W | S = 60A |
| P = 450W | P = 90A |
| M = 600W | M = 120A |

MegaMod Specifications

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

INPUT SPECIFICATIONS

| Parameter | MegaMod (E-Grade) | | | MegaMod (C-, I-, M-Grade) | | | Unit | Test Conditions |
|-------------------------------------|-------------------|--|-----|---------------------------|--|--|-----------------|-----------------------|
| | Min | Typ | Max | Min | Typ | Max | | |
| 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+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ | | | 30+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ | | dB | 120Hz, nom. line |
| | | | | | | 20+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ | | |
| No load power dissipation | | 1.35 | 2 | | 1.35 | 2 | Watts | Per module |

OUTPUT SPECIFICATIONS

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

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

| 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 _{RMS} | Baseplate earthed |
| Output to baseplate | 500 | | | 500 | | | V _{RMS} | |
| Input to baseplate | 1,500 | | | 1,500 | | | V _{RMS} | |

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_{BP} = 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 ⁻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+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ | | | 30+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ | | dB | 120Hz, nom. line |
| | | | | | 20+20Log $\left(\frac{V_{IN}}{V_{OUT}}\right)$ | | | 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 _{NOM} | |
| Load/line regulation | | | 0.5% | | 0.05% | 0.2% | V _{NOM} | LL to HL, 10% to FL |
| | | | 1.0% | | 0.2% | 0.5% | | 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

| 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 _{RMS} | Baseplate earthed |
| Output to baseplate | 500 | | | 500 | | | V _{RMS} | |
| Input to baseplate | 1,500 | | | 1,500 | | | V _{RMS} | |

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 | | | |
| 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 | | |

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