Features & Benefits
- RoHS compliant (VE versions)
- Inputs: 10 to 400V
- Any output, 1 to 95V
- cULus, cTÜVus, CE Marked
- 80 – 90% Efficiency (Typical)
- Up to 27 W/in³

2 Up:
- 2.58” x 2.5” x 0.62” (Junior)
- 4.9” x 2.5” 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-100 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

<table>
<thead>
<tr>
<th>Input Voltage</th>
<th>Maximum Power</th>
<th>Low Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal</td>
<td>Input Range</td>
<td>MegaMod</td>
</tr>
<tr>
<td></td>
<td>Full Power</td>
<td></td>
</tr>
<tr>
<td>0 = 12V</td>
<td>10 – 20V</td>
<td>4</td>
</tr>
<tr>
<td>V = 24V</td>
<td>10 – 36V</td>
<td>2</td>
</tr>
<tr>
<td>1 = 24V</td>
<td>21 – 32V</td>
<td>8</td>
</tr>
<tr>
<td>W = 24V</td>
<td>18 – 36V</td>
<td>8</td>
</tr>
<tr>
<td>2 = 36V</td>
<td>21 – 66V</td>
<td>8</td>
</tr>
<tr>
<td>3 = 48V</td>
<td>42 – 80V</td>
<td>10</td>
</tr>
<tr>
<td>N = 48V</td>
<td>36 – 76V</td>
<td>10</td>
</tr>
<tr>
<td>Q = 72V</td>
<td>55 – 100V</td>
<td>9</td>
</tr>
<tr>
<td>T = 110V</td>
<td>66 – 160V</td>
<td>9</td>
</tr>
<tr>
<td>5 = 150V</td>
<td>100 – 200V</td>
<td>9</td>
</tr>
<tr>
<td>6 = 300V</td>
<td>200 – 400V</td>
<td>10</td>
</tr>
<tr>
<td>7 = 500V</td>
<td>300 – 600V</td>
<td>5</td>
</tr>
</tbody>
</table>

Max. Output Per Module
- 5 – 7.5V Outputs
- >7.5V Outputs
- <5V Outputs

| (1) 50W | 75W | 10A |
| (2) 100W | 75W | 15A |
| (4) 75W | 75W | 15A |
| (5) 75W | 100W | 20A |
| (6) 100W | 100W | 20A |
| (7) 100W | 150W | 30A |
| (8) 150W | 150W | 30A |
| (9) 150W | 200W | 40A |
| (10) 200W | 200W | 40A |
| (11) 50W | 50W | 10A |

Product Grade Temperature (°C)

<table>
<thead>
<tr>
<th>MegaMod</th>
<th>MegaMod Jr.</th>
</tr>
</thead>
<tbody>
<tr>
<td>E = -10 to +85</td>
<td>-10 to +100</td>
</tr>
<tr>
<td>C = -25 to +85</td>
<td>-25 to +100</td>
</tr>
<tr>
<td>I = -40 to +85</td>
<td>-40 to +100</td>
</tr>
<tr>
<td>M = -55 to +85</td>
<td>-55 to +100</td>
</tr>
</tbody>
</table>

Output Power/Current

<table>
<thead>
<tr>
<th>VOUT &gt; 5V</th>
<th>VOUT = 5V</th>
<th>VOUT &lt; 5V</th>
</tr>
</thead>
<tbody>
<tr>
<td>W = 100W</td>
<td>W = 20A</td>
<td>W = 10A</td>
</tr>
<tr>
<td>V = 150W</td>
<td>V = 20A</td>
<td>V = 10A</td>
</tr>
<tr>
<td>U = 200W</td>
<td>U = 40A</td>
<td>U = 20A</td>
</tr>
<tr>
<td>S = 300W</td>
<td>S = 60A</td>
<td>S = 40A</td>
</tr>
<tr>
<td>Q = 400W</td>
<td>Q = 80A</td>
<td>Q = 80A</td>
</tr>
</tbody>
</table>

Output Power/Current

<table>
<thead>
<tr>
<th>VOUT &gt; 5V</th>
<th>VOUT &lt; 5V</th>
</tr>
</thead>
<tbody>
<tr>
<td>W = 100W</td>
<td>W = 20A</td>
</tr>
<tr>
<td>V = 150W</td>
<td>V = 20A</td>
</tr>
<tr>
<td>U = 200W</td>
<td>U = 40A</td>
</tr>
<tr>
<td>S = 300W</td>
<td>S = 60A</td>
</tr>
<tr>
<td>Q = 400W</td>
<td>Q = 80A</td>
</tr>
</tbody>
</table>

*Note: 25 to 600 Watts DC-DC Converters Single, Dual, Triple Output Chassis Mount*
MegaMod Specifications

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

### INPUT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MegaMod (E-Grade)</th>
<th></th>
<th></th>
<th>MegaMod (C-, I-, M-Grade)</th>
<th></th>
<th></th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inrush charge</td>
<td>$120 \times 10^{-6}$</td>
<td>$120 \times 10^{-6}$</td>
<td>$200 \times 10^{-6}$</td>
<td>Coulombs</td>
<td>Nom. line, per module</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input reflected ripple current – pp</td>
<td>$10%$</td>
<td>$10%$</td>
<td>$l_n$</td>
<td>full load</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Input ripple rejection</td>
<td>$25 + 20 \log \left( \frac{V_{IN}}{V_{OUT}} \right)$</td>
<td>$30 + 20 \log \left( \frac{V_{IN}}{V_{OUT}} \right)$</td>
<td>dB</td>
<td>120Hz, nom. line</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No load power dissipation</td>
<td>1.35</td>
<td>2</td>
<td>1.35</td>
<td>2</td>
<td>Watts</td>
<td>Per module</td>
<td></td>
</tr>
</tbody>
</table>

### OUTPUT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MegaMod (E-Grade)</th>
<th></th>
<th></th>
<th>MegaMod (C-, I-, M-Grade)</th>
<th></th>
<th></th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setpoint accuracy</td>
<td>$1%$</td>
<td>$2%$</td>
<td>$0.5%$</td>
<td>$1%$</td>
<td>$V_{NOM}$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load / line regulation</td>
<td>$0.5%$</td>
<td>$0.2%$</td>
<td>$0.5%$</td>
<td>$V_{NOM}$</td>
<td>LL to HL, 10% to FL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output ripple - pp</td>
<td>$2V, 3.3V$</td>
<td>$60$</td>
<td>$100$</td>
<td>$mV$</td>
<td>20MHz bandwidth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output voltage trimming$[^a]$</td>
<td>$5%$</td>
<td>$2%$</td>
<td>$3%$</td>
<td>$V_{NOM}$</td>
<td>20MHz bandwidth</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output voltage trimming$[^a]$</td>
<td>$10 - 95V$</td>
<td>$3%$</td>
<td>$0.75%$</td>
<td>$1.5%$</td>
<td>$V_{NOM}$</td>
<td>20MHz bandwidth</td>
<td></td>
</tr>
<tr>
<td>Total remote sense compensation</td>
<td>$0.5$</td>
<td>$0.5$</td>
<td>$V_{NOM}$</td>
<td>Volts</td>
<td>0.25V max. neg. leg</td>
<td></td>
<td></td>
</tr>
<tr>
<td>OVP setpoint$[^b]$</td>
<td>$125%$</td>
<td>$115%$</td>
<td>$125%$</td>
<td>$135%$</td>
<td>$V_{NOM}$</td>
<td>Recycle power</td>
<td></td>
</tr>
<tr>
<td>Current limit</td>
<td>$105%$</td>
<td>$135%$</td>
<td>$125%$</td>
<td>$130%$</td>
<td>$I_{NOM}$</td>
<td>Automatic restart</td>
<td></td>
</tr>
<tr>
<td>Short circuit current$[^c]$</td>
<td>$20%$</td>
<td>$140%$</td>
<td>$20%$</td>
<td>$130%$</td>
<td>$I_{NOM}$</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

[^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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MegaMod (E-Grade)</th>
<th></th>
<th></th>
<th>MegaMod (C-, I-, M-Grade)</th>
<th></th>
<th></th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gate out impedance</td>
<td>50</td>
<td>50</td>
<td>Ohms</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gate in impedance</td>
<td>$10^3$</td>
<td>$10^3$</td>
<td>Ohms</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gate in open circuit voltage</td>
<td>6</td>
<td>6</td>
<td>Volts</td>
<td>Use open collector</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gate in low threshold</td>
<td>0.65</td>
<td>0.65</td>
<td>Volts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gate in low current</td>
<td>6</td>
<td>6</td>
<td>mA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power sharing accuracy</td>
<td>0.95</td>
<td>1.05</td>
<td>0.95</td>
<td>1.05</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## MegaMod Specifications (Cont.)

### DIELECTRIC WITHSTAND CHARACTERISTICS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MegaMod (E-Grade)</th>
<th>MegaMod (C-, I-, M-Grade)</th>
<th>Unit</th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input to output</td>
<td>3,000</td>
<td>3,000</td>
<td>V_{RMS}</td>
<td>Baseplate earthed</td>
</tr>
<tr>
<td>Output to baseplate</td>
<td>500</td>
<td>500</td>
<td>V_{RMS}</td>
<td>Baseplate (Cool and recycle power to restart)</td>
</tr>
<tr>
<td>Input to baseplate</td>
<td>1,500</td>
<td>1,500</td>
<td>V_{RMS}</td>
<td>Baseplate (Cool and recycle power to restart)</td>
</tr>
</tbody>
</table>

### THERMAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MegaMod (E-Grade)</th>
<th>MegaMod (C-, I-, M-Grade)</th>
<th>Units</th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Efficiency</td>
<td>78-88%</td>
<td>80 – 90%</td>
<td>°C/Watt</td>
<td>Baseplate earthed</td>
</tr>
<tr>
<td>Baseplate to chassis</td>
<td>0.1</td>
<td>0.1</td>
<td>°C/Watt</td>
<td>Baseplate (Cool and recycle power to restart)</td>
</tr>
<tr>
<td>Thermal Shutdown</td>
<td>90 95 105</td>
<td>90 95 105</td>
<td>°C</td>
<td>Baseplate (Cool and recycle power to restart)</td>
</tr>
</tbody>
</table>

### MECHANICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MegaMod (E-Grade)</th>
<th>MegaMod (C-, I-, M-Grade)</th>
<th>Units</th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Up</td>
<td>9.0 (255)</td>
<td>9.0 (255)</td>
<td>Ounces (Grams)</td>
<td></td>
</tr>
<tr>
<td>2 Up</td>
<td>1.2 (545)</td>
<td>1.2 (545)</td>
<td>Lbs. (Grams)</td>
<td></td>
</tr>
<tr>
<td>3 Up</td>
<td>1.7 (772)</td>
<td>1.7 (772)</td>
<td>Lbs. (Grams)</td>
<td></td>
</tr>
</tbody>
</table>
# MegaMod Jr. Specifications

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

## INPUT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MegaMod Jr. (E-Grade)</th>
<th>MegaMod Jr. (C-, I-, M-Grade)</th>
<th>Unit</th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inrush charge</td>
<td>( 60 \times 10^6 )</td>
<td>( 60 \times 10^6 )</td>
<td>Coulombs</td>
<td>Nom. line, per module</td>
</tr>
<tr>
<td>Input reflected ripple current — pp</td>
<td>( 10% )</td>
<td>( 10% )</td>
<td>( I_n )</td>
<td>Nom. line, full load</td>
</tr>
<tr>
<td>Input ripple rejection</td>
<td>( 25 + 20 \log \left( \frac{V_{IN}}{V_{OUT}} \right) )</td>
<td>( 30 + 20 \log \left( \frac{V_{IN}}{V_{OUT}} \right) )</td>
<td>dB</td>
<td>120Hz, nom. line</td>
</tr>
<tr>
<td>No load power dissipation</td>
<td>( 1.35 )</td>
<td>( 1.35 )</td>
<td>Watts</td>
<td>Per module</td>
</tr>
</tbody>
</table>

## OUTPUT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MegaMod Jr. (E-Grade)</th>
<th>MegaMod Jr. (C-, I-, M-Grade)</th>
<th>Units</th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Setpoint accuracy</td>
<td>( 1.0% )</td>
<td>( 0.5% )</td>
<td>( V_{NOM} )</td>
<td>LL to HL, 10% to FL</td>
</tr>
<tr>
<td>Load/line regulation</td>
<td>( 0.5% )</td>
<td>( 0.2% )</td>
<td>( V_{NOM} )</td>
<td>LL to HL, NL to 10%</td>
</tr>
<tr>
<td>Output temperature drift</td>
<td>0.02</td>
<td>0.01</td>
<td>%/^\circ C</td>
<td>Over rated temp.</td>
</tr>
<tr>
<td>Long term drift</td>
<td>0.02</td>
<td>0.02</td>
<td>%/1K hours</td>
<td></td>
</tr>
<tr>
<td>Output ripple, pp</td>
<td>2V, 3.3V</td>
<td>100</td>
<td>( mV )</td>
<td>20MHz bandwidth</td>
</tr>
<tr>
<td>5V</td>
<td>2%</td>
<td>3%</td>
<td>( V_{NOM} )</td>
<td>20MHz bandwidth</td>
</tr>
<tr>
<td>10V – 95V</td>
<td>3%</td>
<td>0.75%</td>
<td>( V_{NOM} )</td>
<td>20Hz bandwidth</td>
</tr>
<tr>
<td>Output voltage trimming[a]</td>
<td>50%</td>
<td>110%</td>
<td>( V_{NOM} )</td>
<td>Volts 0.25V max. neg. leg</td>
</tr>
<tr>
<td>Total remote sense compensation</td>
<td>0.5</td>
<td>0.5</td>
<td>Volts</td>
<td></td>
</tr>
<tr>
<td>OVP setpoint</td>
<td>N/A</td>
<td>N/A</td>
<td></td>
<td>Automatic restart</td>
</tr>
<tr>
<td>Current limit</td>
<td>105%</td>
<td>135%</td>
<td>( I_{NOM} )</td>
<td>Automatic restart</td>
</tr>
<tr>
<td>Short circuit current</td>
<td>105%</td>
<td>140%</td>
<td>( I_{NOM} )</td>
<td>Automatic restart</td>
</tr>
</tbody>
</table>

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

## CONTROL PIN SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MegaMod Jr. (E-Grade)</th>
<th>MegaMod Jr. (C-, I-, M-Grade)</th>
<th>Units</th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gate out impedance</td>
<td>50</td>
<td>50</td>
<td>Ohms</td>
<td></td>
</tr>
<tr>
<td>Gate in impedance</td>
<td>1,000</td>
<td>1,000</td>
<td>Ohms</td>
<td></td>
</tr>
<tr>
<td>Gate in high threshold</td>
<td>6</td>
<td>6</td>
<td>Volts</td>
<td>Use open collector</td>
</tr>
<tr>
<td>Gate in low threshold</td>
<td>0.65</td>
<td>0.65</td>
<td>Volts</td>
<td></td>
</tr>
<tr>
<td>Gate in low current</td>
<td>6</td>
<td>6</td>
<td>mA</td>
<td></td>
</tr>
</tbody>
</table>
**MegaMod Jr. Specifications (Cont.)**

### DIELECTRIC WITHSTAND CHARACTERISTICS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MegaMod Jr. (E-Grade)</th>
<th>MegaMod Jr. (C-, I-, M-Grade)</th>
<th>Unit</th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input to output</td>
<td>3,000</td>
<td>3,000</td>
<td>$V_{RMS}$</td>
<td>Baseplate earthed</td>
</tr>
<tr>
<td>Output to baseplate</td>
<td>500</td>
<td>500</td>
<td>$V_{RMS}$</td>
<td></td>
</tr>
<tr>
<td>Input to baseplate</td>
<td>1,500</td>
<td>1,500</td>
<td>$V_{RMS}$</td>
<td></td>
</tr>
</tbody>
</table>

### THERMAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MegaMod Jr. (E-Grade)</th>
<th>MegaMod Jr. (C-, I-, M-Grade)</th>
<th>Units</th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Efficiency</td>
<td>78 – 88%</td>
<td>80 – 90%</td>
<td>%</td>
<td></td>
</tr>
<tr>
<td>Baseplate to chassis</td>
<td>0.2</td>
<td>0.2</td>
<td>°C/Watt</td>
<td></td>
</tr>
</tbody>
</table>

### MECHANICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MegaMod Jr. (E-Grade)</th>
<th>MegaMod Jr. (C-, I-, M-Grade)</th>
<th>Units</th>
<th>Test Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Up</td>
<td>4.5 (127)</td>
<td>4.5 (127)</td>
<td>Ounces (Grams)</td>
<td></td>
</tr>
<tr>
<td>2 Up</td>
<td>8.8 (250)</td>
<td>8.8 (250)</td>
<td>Ounces (Grams)</td>
<td></td>
</tr>
<tr>
<td>3 Up</td>
<td>13.3 (377)</td>
<td>13.3 (377)</td>
<td>Ounces (Grams)</td>
<td></td>
</tr>
</tbody>
</table>
**MegaMod Mechanical Specifications**

### Inputs
1. Input 1 – Gate Out #2
2. Gate Out #1 – Gate In #2
3. Gate In #1 – Gate Out #3
4. +Input – Gate In #3

### Outputs
- Output #1
- Output #2
- Output #3

**L- and LJ-Series**
- A – Output
- B – Sense
- C – Trim
- D – Sense
- E – Output

**R- and RJ-Series**
- A – Output
- B – Sense
- C – Trim
- D – Sense
- E – Output

**P- and PJ-Series**
- A – Output
- B – Sense
- C – Trim
- D – Sense
- E – Output

### Mounting Information
- Use #6 machine hardware torqued to 5-7 in-lbs.
- NUT TERMINAL LUG SCREW HELICAL LOCK WASHER
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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