WATTS

400-800

POWER SUPPLY AC/DC

SINGLE OR MULTIPLE OUTPUT

Flexible modular design
Programmable outputs**
Power factor correction***
Universal input 85-264 VAC*
EMI EN55022 curve B(1)

Guarantee 3 years

* Consult Technical Sales for maximum power available
** See programmable modules
*** Models MML400PFC, MML600, MML800
(1) option on certain models

INPUT

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input protection</td>
<td>internal fuse</td>
</tr>
<tr>
<td>Thermal protection</td>
<td>standard</td>
</tr>
<tr>
<td>Switching frequency</td>
<td>100KHz</td>
</tr>
<tr>
<td>Input with PFC:</td>
<td>(MML400PFC, MML600, MML800)</td>
</tr>
<tr>
<td>Input voltage range</td>
<td>85*-264VAC</td>
</tr>
<tr>
<td>Inrush current (peak)</td>
<td>MML400PFC &lt; 35A, MML600 &lt; 20A, MML800 &lt; 55A</td>
</tr>
<tr>
<td>Power factor</td>
<td>&gt; 0.9</td>
</tr>
<tr>
<td>Start up time (max.)</td>
<td>MML400PFC &lt; 700 msec, MML600,800 &lt; 1500 msec</td>
</tr>
<tr>
<td>Inrush current</td>
<td>MML400PFC &lt; 35A, MML600 &lt; 20A, MML800 &lt; 55A</td>
</tr>
<tr>
<td>Start up time (max.)</td>
<td>MML400 &lt; 900 msec</td>
</tr>
</tbody>
</table>

GENERAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power</td>
<td>400 to 800W</td>
</tr>
<tr>
<td>Efficiency</td>
<td>&lt; 73% Line &amp; configuration dependent</td>
</tr>
<tr>
<td>Voltage isolation:</td>
<td></td>
</tr>
<tr>
<td>Input-output</td>
<td>3.0KV RMS</td>
</tr>
<tr>
<td>Input-ground</td>
<td>1.5KV RMS</td>
</tr>
<tr>
<td>Output-ground</td>
<td>500VDC</td>
</tr>
<tr>
<td>Input/output resistance</td>
<td>30Mohms/ 500VDC</td>
</tr>
<tr>
<td>AC power fail</td>
<td>Opto isolated input standard on MML600, 800, MML400PFC</td>
</tr>
<tr>
<td>Inhibit</td>
<td>Opto isolated input standard on MML600, 800, MML400PFC</td>
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</table>

ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Operating temperature</td>
<td>0°C at + 70°C</td>
</tr>
<tr>
<td>Derating</td>
<td>400W and 800W : 100% upto 50°C then 2.5%/°C / 600W : 100% upto 45°C then 2%/°C</td>
</tr>
<tr>
<td>Operating/storage humidity</td>
<td>5% to 95% HR</td>
</tr>
<tr>
<td>(non condensing)</td>
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</tr>
<tr>
<td>Operating/storage pressure</td>
<td>1030 to 680 millibars</td>
</tr>
<tr>
<td>EMC</td>
<td>EN 55022 class A or B configuration dependent</td>
</tr>
</tbody>
</table>

(1) option on certain models
## OUTLINE SPECIFICATION

### OUTPUT

Module table (nominal output values)

<table>
<thead>
<tr>
<th>Type of module</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slot width (1 slot = 23 mm)</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Output voltage</td>
<td>5V</td>
<td>5V</td>
<td>12V</td>
<td>24V</td>
<td>12V/12V</td>
<td>12V</td>
<td>24V</td>
<td>24V/24V</td>
<td>48V</td>
<td>12V/12V</td>
<td>5</td>
</tr>
<tr>
<td>Adjustment range</td>
<td>2.6V</td>
<td>2.6V</td>
<td>5.15V</td>
<td>12.28V</td>
<td>5.15V</td>
<td>5.15V</td>
<td>12.28V</td>
<td>12.28V</td>
<td>25.60V</td>
<td>5.15V</td>
<td>2.6V</td>
</tr>
<tr>
<td>Output current</td>
<td>60A</td>
<td>25A</td>
<td>12A</td>
<td>7A</td>
<td>6A²</td>
<td>24A</td>
<td>15A</td>
<td>3.5A²</td>
<td>10A</td>
<td>6A²</td>
<td>100</td>
</tr>
<tr>
<td>Load regulation (0-100%)</td>
<td>0.1%</td>
<td>0.1%</td>
<td>0.1%</td>
<td>0.1%</td>
<td>0.5%</td>
<td>0.1%</td>
<td>0.1%</td>
<td>0.5%³</td>
<td>0.1%</td>
<td>0.5%</td>
<td>0.2%</td>
</tr>
<tr>
<td>Adjustment</td>
<td>Multi turn potentiometer</td>
<td>±1%</td>
<td>Temperature coefficient</td>
<td>0.02%/°C</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ripple &amp; noise (PARD)</td>
<td>50mV or 1% whichever is greater (A B C D F G J L). 1% typical twin o/p Note 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Transient response</td>
<td>Max.deviation &lt;7.5% of set volts recovering to 1% within 300 microseconds</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overcurrent protection</td>
<td>Non foldback/fold back option</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overvoltage protection</td>
<td>Tracking 120% of set voltage on A B C D E F G L fixed on E H K</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Remote sense</td>
<td>0.5 volts total (not E H K)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output isolation</td>
<td>500 VDC / ground</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. 10% - 100% load
2. Total current shared between both outputs
3. Modules E H K have fixed overvoltage clamp, typically 18V for E and K, 35V for H
4. 50mV up to 6A/channel, 10mA up to 1A/channel (K module only)

### PROGRAMMABLE MODULES (Series BP and DP)

Omega programmable modules offer ideal flexible solutions for ATE applications. Because of their compatibility with all standard Omega modules they can be combined within the same power supply giving total output power of up to 800 Watts.

#### MODE OF PROGRAMMING

- **Resistance voltage programming**
  - Resistance 1KΩ/V
  - Voltage 0-5V
- **Current programming**
  - A voltage of 0-5 volts on the current control pins will programme current limit from 10% 100% of full load

#### SIGNAL CONTROL (on certain modules)

- **“Enable”**
  - Logic input referenced to V out -VE
- **“Power good”**
  - Open collector, output voltage within +/- 10% of programmed value. Transistor on. Sink capability 1mA + <1V

#### GENERAL

- **Power**
  - 150W (derating 2W/°C >25°C for BP).
  - Please consult Technical Sales
- **Dimensions**
  - 23mm per module
- **Operating temperature**
  - 0-50°C no derating
  - 50-70°C derating 2.5%/°C
- **Programming accuracy**
  - Voltage ± 0,1%
  - Current ± 10%
- **Minimum load**
  - To achieve voltages of <1V external bleed current of 500mA of 500mA required
- **Overcurrent protection**
  - non-programmable 105-130% I nom programmable 10-110% I nom
- **Overvoltage protection**
  - 115%-125% tracking
- **Remote sense**
  - 0.25V max. each line
# TABLE OF PROGRAMMABLE MODULES

<table>
<thead>
<tr>
<th>Modules</th>
<th>BP1</th>
<th>BP2</th>
<th>BP3</th>
<th>BP4</th>
<th>BP5</th>
<th>BP6</th>
<th>DP1</th>
<th>DP2</th>
<th>DP3</th>
<th>DP4</th>
<th>DP5</th>
<th>DP6</th>
<th>DP7</th>
<th>DP8</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Output voltage (V)</strong></td>
<td>0.15V - 6V</td>
<td>0.25V - 30V (DP3 : 0.25 - 15V)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td><strong>Current (A)</strong></td>
<td>0.25</td>
<td>25</td>
<td>0.25</td>
<td>25</td>
<td>0.25</td>
<td>20</td>
<td>0.25</td>
<td>7</td>
<td>2</td>
<td>0.25</td>
<td>0.25</td>
<td>20</td>
<td>0.25</td>
<td>7</td>
</tr>
<tr>
<td><strong>Voltage programming</strong></td>
<td>1kΩ/ V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
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<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
</tr>
<tr>
<td><strong>Current programming (0-5V)</strong></td>
<td>• • • • • • • • • • • • • • •</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
<td>0-5V</td>
</tr>
<tr>
<td><strong>OVP tracking</strong></td>
<td>ext.</td>
<td>ext.</td>
<td>ext.</td>
<td>int.</td>
<td>ext.</td>
<td>ext.</td>
<td>int.</td>
<td>ext.</td>
<td>int.</td>
<td>ext.</td>
<td>ext.</td>
<td>ext.</td>
<td>ext.</td>
<td></td>
</tr>
<tr>
<td><strong>Signal options</strong></td>
<td>ENABLE</td>
<td>OUTPUT GOOD</td>
<td>ENABLE</td>
<td>OUTPUT GOOD</td>
<td>ENABLE</td>
<td>OUTPUT GOOD</td>
<td>ENABLE</td>
<td>OUTPUT GOOD</td>
<td>ENABLE</td>
<td>OUTPUT GOOD</td>
<td>ENABLE</td>
<td>OUTPUT GOOD</td>
<td>ENABLE</td>
<td>OUTPUT GOOD</td>
</tr>
<tr>
<td><strong>Line regulation</strong></td>
<td>± 15 mV</td>
<td>± 15 mV</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Load regulation</strong></td>
<td>± 15 mV</td>
<td>± 15 mV</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ripple &amp; noise</strong></td>
<td>60 mV</td>
<td>200 mV</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## OPTIONS

### OPTIONS PRIMARY

(Standard on MML600, 800)

- **Mains fail**: Isolated signal from opto-coupler. Output signal can sink a maximum of 10mA to allow a 5 millisecond hold-up from activation of mains signal until power supply drops out of limit.
- **Converter inhibit**: Power supply inhibited by applying 7.5mA through an opto-isolated input. MML400 PFC Inhibit - TTL lo (0.4) to inhibit 0.4-60V max to turn on from an internal isolated (5V, 40mA) supply. This supply may be used as an additional output if required for inhibit function.
- **MML400 PFC Mains Fail**: Open collector output can be connected to any external voltage up to 60V.

### OPTIONS SECONDARY

- **Starpoint**: Single wire interconnect forces paralleled modules to share current at greater than 15% load, modules share within 6% of current determined by current limit sharing.
- **“Power good”**: Detects output voltage high or low (+/-10%) from set output volts.

### SECONDARY OPTIONS (continued)

- **Inhibit / Enable**: Factory configurable for module inhibit/enable - hi or lo. Pin is connected to 0 volts or +VE output to effect control.
- **VME**: AC fail, system reset, power good compatible with VME bus (modules A B & L).

### Output connections via 4 pin molex

### Suffix Function

<table>
<thead>
<tr>
<th>Suffix</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y5</td>
<td>“Starpoint” + starpoint and module good</td>
</tr>
<tr>
<td>Y6</td>
<td>“Power good” + Inhibit (hi or lo)</td>
</tr>
<tr>
<td>Y7</td>
<td>“Power good” + Enable (active hi)</td>
</tr>
<tr>
<td>Y8</td>
<td>“Power good” + Enable (active lo)</td>
</tr>
</tbody>
</table>

### CASE OPTIONS

- **U Case**: An alternative case form is available with the output terminal along the 127mm dimension and opposite the mains input and fan (not available on MML800).
- **DD Case**: 600W version available in a 127 x 127 x 241mm case (example MML600DD).
### TABLE OF STANDARD MODELS

<table>
<thead>
<tr>
<th>Model</th>
<th>Case</th>
<th>Maximum power</th>
<th>Output N°1</th>
<th>Output N°2</th>
<th>Output N°3</th>
<th>Output N°4</th>
<th>Output N°5</th>
<th>Module line up</th>
<th>Number of slots</th>
</tr>
</thead>
<tbody>
<tr>
<td>MML 400 B1</td>
<td>400</td>
<td>360</td>
<td>5</td>
<td>60</td>
<td></td>
<td></td>
<td></td>
<td>A</td>
<td>2</td>
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<tr>
<td>MML 400 C1</td>
<td>400</td>
<td>400</td>
<td>5</td>
<td>80</td>
<td></td>
<td></td>
<td></td>
<td>A + B (Parallel)</td>
<td>3</td>
</tr>
<tr>
<td>MML 400 B2</td>
<td>400</td>
<td>400</td>
<td>24</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td>G</td>
<td>2</td>
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<tr>
<td>MML 400 B3</td>
<td>400</td>
<td>360</td>
<td>12</td>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td>F</td>
<td>2</td>
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<td>MML 400 D1</td>
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<td>60</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>A + C + C</td>
<td>4</td>
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<td>MML 400 E1</td>
<td>400</td>
<td>400</td>
<td>5</td>
<td>60</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>24</td>
<td>A + C + C + D</td>
</tr>
<tr>
<td>MML 400 E2</td>
<td>400</td>
<td>400</td>
<td>5</td>
<td>60</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>A + C + C</td>
</tr>
<tr>
<td>MML 400 PFC B1</td>
<td>400</td>
<td>360</td>
<td>5</td>
<td>60</td>
<td></td>
<td></td>
<td></td>
<td>A</td>
<td>2</td>
</tr>
<tr>
<td>MML 400 PFC C1</td>
<td>400</td>
<td>400</td>
<td>5</td>
<td>80</td>
<td></td>
<td></td>
<td></td>
<td>A + B (Parallel)</td>
<td>3</td>
</tr>
<tr>
<td>MML 400 PFC B2</td>
<td>400</td>
<td>400</td>
<td>24</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
<td>G</td>
<td>2</td>
</tr>
<tr>
<td>MML 400 PFC B3</td>
<td>400</td>
<td>360</td>
<td>12</td>
<td>24</td>
<td></td>
<td></td>
<td></td>
<td>F</td>
<td>2</td>
</tr>
<tr>
<td>MML 400 PFC D1</td>
<td>400</td>
<td>400</td>
<td>5</td>
<td>60</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>A + C + C</td>
<td>4</td>
</tr>
<tr>
<td>MML 400 PFC E1</td>
<td>400</td>
<td>400</td>
<td>5</td>
<td>60</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>24</td>
<td>A + C + C + D</td>
</tr>
<tr>
<td>MML 400 PFC E2</td>
<td>400</td>
<td>400</td>
<td>5</td>
<td>60</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>A + C + C + B</td>
</tr>
<tr>
<td>MML 600 T1</td>
<td>600</td>
<td>600</td>
<td>5</td>
<td>120</td>
<td></td>
<td></td>
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<td>A + A (Parallel)</td>
<td>4</td>
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<tr>
<td>MML 600 T2</td>
<td>600</td>
<td>600</td>
<td>24</td>
<td>25</td>
<td></td>
<td></td>
<td></td>
<td>G + G (Parallel)</td>
<td>4</td>
</tr>
<tr>
<td>MML 600 T4</td>
<td>600</td>
<td>600</td>
<td>48</td>
<td>12.5</td>
<td></td>
<td></td>
<td></td>
<td>J + J (Parallel)</td>
<td>4</td>
</tr>
<tr>
<td>MML 600 T5</td>
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<td>600</td>
<td>5</td>
<td>60</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>A + C + C</td>
<td>4</td>
</tr>
<tr>
<td>MML 600 U3</td>
<td>600</td>
<td>600</td>
<td>5</td>
<td>80</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>A + B (Parallel) + C + C</td>
<td>5</td>
</tr>
<tr>
<td>MML 800 V1</td>
<td>800</td>
<td>800</td>
<td>24</td>
<td>30</td>
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<td></td>
<td>G + G (Parallel)</td>
<td>4</td>
</tr>
<tr>
<td>MML 800 V2</td>
<td>800</td>
<td>800</td>
<td>48</td>
<td>16.5</td>
<td></td>
<td></td>
<td></td>
<td>J + J (Parallel)</td>
<td>4</td>
</tr>
</tbody>
</table>

**NB:** All outputs are user adjustable over the range shown in the module table. However, it may not be possible to draw full o/p power of an individual module if the total power exceeds the converter power. Request Omega application note No. 2 for further details.
If you cannot find a standard Omega unit which fully meets your requirements, the Lambda UK Technical Sales support team will create a customised modular unit utilising the standard modules. If your requirements are straightforward you can configure the unit yourself. First list all required output voltage and current ratings (all outputs are fully floating - hence polarity can be ignored), multiply the voltage and current together to calculate power in watts for each output. Add together all the output powers to arrive at the total wattage in this example the total power is 366W.

<table>
<thead>
<tr>
<th>Volts</th>
<th>Amps</th>
<th>Watts</th>
</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>3,25</td>
<td>91</td>
</tr>
<tr>
<td>5</td>
<td>25</td>
<td>125</td>
</tr>
<tr>
<td>5</td>
<td>6</td>
<td>30</td>
</tr>
<tr>
<td>12</td>
<td>4</td>
<td>48</td>
</tr>
<tr>
<td>24</td>
<td>3</td>
<td>72</td>
</tr>
</tbody>
</table>

Total power : 366

Now proceed as follows:

1. Select either 400, 600 or 800 watt converter. In the example a 400 watt would be required.

2. Now refer to the module table and select a unit to meet the requirements of the first output in the example, this is 28 volts at 3.25 amps, so a 'D' module would be suitable. Prefix this with the required voltage (in this case 28). This gives the module specification as 28D.

N.B. : One slot width = 23 mm

4. Now list the converter followed by the modules selected in descending order of current rating

Example : MML 400 5B 5B 12C 28D 24D.

This is the part number of your customised unit

In addition there are options available for either the converter or each of the modules separately, consult the options table for details. If you need the converter or primary option, enter an ‘X’ after the converter i.e. MML400 X. If you need the parallelling option on the 28 volt output enter Y5 after the module i.e. MML400 X 5B5B12C28DY524D

Refer to module table for slot width
**CONNECTIONS**

- **Input**
  - terminal block with 6-32 screws (400/400PFC) 8-32 screws (600/800)

- **DC Outputs**
  - Screw terminals (M6 slot 46mm modules) (M4 1 slot 23mm) (M3 twin modules)

- **Remote Sense**
  - Screw terminals M3

- **Primary options**
  - Molex housing 50-37.5043 (PIN 08-70-1040)

- **Secondary options**
  - Molex 39-01.2040 (PIN 39-00-0032)

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**PRIMARY OPTIONS**

![Diagram of primary options]

**SECONDARY OPTIONS Y5**

- Pin 1: Startpoint Parallel*
- Pin 2: Startpoint Parallel*
- Pin 4: Module Good (-)
- Pin 3: Module Good (+)

**SECONDARY OPTIONS Y6, Y7 AND Y8**

- Pin 1: Inhibit High (Y6) / Enable Low (Y8)
- Pin 2: Inhibit Low (Y6) / Enable High (Y7)
- Pin 4: Power Good (-)
- Pin 3: Power Good (+)

**OPTIONS VME**

- Pin 1: AC Fail
- Pin 2: System reset
- Pin 4: Ground
- Pin 3: Power Good

---

**OMEGA DC INPUT SERIES**

<table>
<thead>
<tr>
<th>Model</th>
<th>Case</th>
<th>Length</th>
<th>Max. power</th>
<th>Output N°1</th>
<th>Output N°2</th>
<th>Output N°3</th>
<th>Output N°4</th>
<th>Modules</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Watts</td>
<td>Volts</td>
<td>Amp.</td>
<td>Volts</td>
<td>Amp.</td>
<td></td>
</tr>
<tr>
<td>MML 400 DCB1</td>
<td>600</td>
<td>258</td>
<td>360</td>
<td>5</td>
<td>60</td>
<td></td>
<td></td>
<td>A</td>
</tr>
<tr>
<td>MML 400 DCC1</td>
<td>600</td>
<td>281</td>
<td>400</td>
<td>5</td>
<td>80</td>
<td></td>
<td></td>
<td>A + B   (Parallel)</td>
</tr>
<tr>
<td>MML 400 DCB2</td>
<td>600</td>
<td>258</td>
<td>400</td>
<td>24</td>
<td>15</td>
<td></td>
<td></td>
<td>G</td>
</tr>
<tr>
<td>MML 400 DCB3</td>
<td>600</td>
<td>258</td>
<td>360</td>
<td>12</td>
<td>24</td>
<td></td>
<td></td>
<td>F</td>
</tr>
<tr>
<td>MML 400 DCD1</td>
<td>600</td>
<td>304</td>
<td>400</td>
<td>5</td>
<td>60</td>
<td>12</td>
<td>12</td>
<td>A + C + C</td>
</tr>
<tr>
<td>MML 400 DCE1</td>
<td>600</td>
<td>327</td>
<td>400</td>
<td>5</td>
<td>60</td>
<td>12</td>
<td>12</td>
<td>24</td>
</tr>
<tr>
<td>MML 400 DCE2</td>
<td>600</td>
<td>327</td>
<td>400</td>
<td>5</td>
<td>60</td>
<td>12</td>
<td>12</td>
<td>5</td>
</tr>
</tbody>
</table>

**INPUT**

- Input voltage range: 36-190VDC
- Inrush current: tba
- Input protection: fuse
- Thermal protection: standard

**PRIMARY/SECONDARY CASE OPTIONS**

see MML 600AC

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**Series OMEGA**
PHYSICAL SPECIFICATION

CASES 400 - 600

IMPORTANT: Maximum penetration of mounting screws not to exceed 5mm

CASE 800

IMPORTANT: Maximum penetration of mounting screws not to exceed 5mm

Series OMEGA
Maximum penetration of M4 fixings not to exceed 6.35mm.