



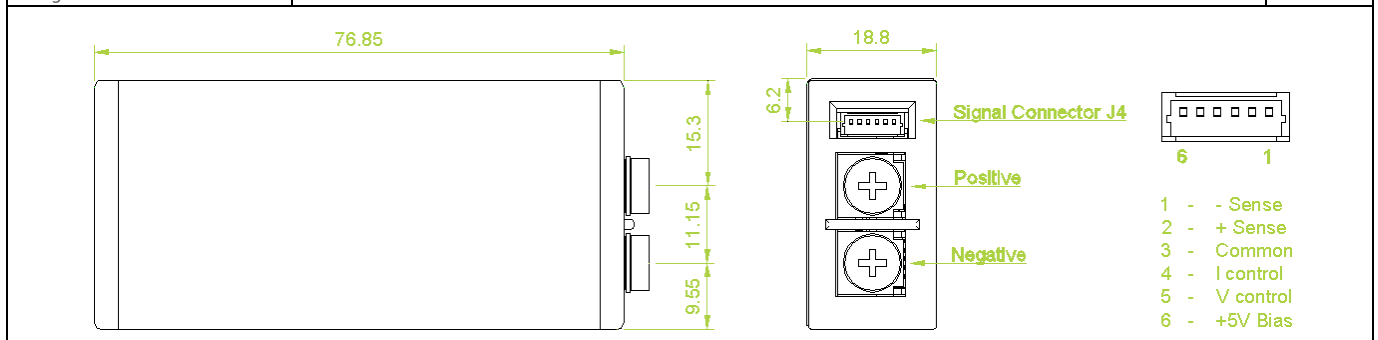
# VCCM600 SERIES

OUTPUT MODULE B: 4.5V-15V,15A, 150W

## OPB DATASHEET



| OUTPUT MODULE B SPECIFICATIONS   |  |       |            |            |                   |
|----------------------------------|--|-------|------------|------------|-------------------|
| Parameter                        | Details  | Min   | Typical    | Max        | Units             |
| Output Voltage Range             | Manual adjustment  | 4.5   | 12         | 15         | Volts             |
| Output Current Rating            |  |       |            | 15         | Amps              |
| Output Power Rating              |  |       |            | 150        | Watts             |
| Peak Power Rating                | Maximum 5 seconds  |       |            | 225        | Watts             |
| Initial voltage setting accuracy | Factory set units  | -0.5  |            | 0.5        | %                 |
| Load Regulation                  | Measured at sense terminals  | -100  |            | 100        | mV                |
| Line Regulation                  | Measured at sense terminals  | -0.1  |            | 0.1        | %V <sub>NOM</sub> |
| Cross Regulation                 | Measured at sense terminals  | -0.2  |            | 0.2        | %V <sub>NOM</sub> |
| Minimum load                     |  | 0     |            |            | Watts             |
| Temperature coefficient          |  | -0.02 |            | +0.02      | %/°C              |
| Ripple and Noise                 | 20MHz BW, pk-pk  |       |            | 1          | %V <sub>NOM</sub> |
| Transient response               | 25% to 75% load transient at 0.5A/uS<br>Recovery to within 10% of V <sub>SET</sub> |       |            | 1.5        | Volts             |
| Turn on rise time                | Monotonic 10% to 90%   | 1.5   |            | 3.5        | mS                |
| Turn on overshoot                |  |       |            | 0.1        | %V <sub>SET</sub> |
| Turn on delay                    | AC to PG<br>EN to PG   |       | 2000<br>15 | 3000<br>20 | mS                |
| Current share accuracy           | Error from ideal sharing current. Valid for loads > 20% of rating.                 | -5    |            | +5         | %                 |
| Open Sense offset                | Voltage offset between sense lines and output terminals when sense lines unused    |       |            | 2          | %V <sub>NOM</sub> |
| Holdup voltage                   |  |       |            | 12.5       | Volts             |
| Isolation to ground              | Each output terminal   |       |            | 500        | Volts             |
| Over current protection          |  | 105   | 115        | 125        | %Rated            |
| Reverse current protection       |  | -6    |            | 0          | %Rated            |
| Short circuit protection         | Period/Duty cycle/Voltage Threshold (Measured at sense terminals)                  |       | 125/3/2    |            | mS/%/V            |
| Over Voltage Protection          |  |       | 18         |            | Volts             |
| Over Temperature Protection      | Various locations  | 115   |            | 125        | °C                |
| Sense Cable Protection           | Positive<br>Negative   | -1    |            | 2<br>1     | Volts             |
| Power Good Threshold             | Low threshold only   |       | 90         |            | %V <sub>SET</sub> |
| Current Output Signal            | $V_{CURRENT} = 4 * I_{OUT}/I_{RATED}$  | 0     |            | 125        | %Rated            |
| Current Limit Control            | $I_{LIMIT} = I_{RATED} * V_{CONTROL}/4$  | 0     |            | 100        | %Rated            |
| Remote Voltage Control           | $V_{OUT} = V_{SET} * (5 - V_{CONTROL})/3.8$  | 0     |            | 131.5      | %V <sub>SET</sub> |
| Bias Supply                      | 10mA Max   | 4.5   |            | 5.2        | Volts             |
| Reliability                      | 30°C base, 100% load, SR332 Issue 2 Method I, Case 3, Ground, Fixed, Controlled    |       |            | 0.5        | FPMH              |
| Warranty                         |  |       |            | 5          | Years             |
| Wire Size                        |  | 16    | 14         | 10         | AWG               |
| Size                             | 77 (L) x 18.8 (W) x 36 (H)   |       |            |            | mm                |
| Weight                           | 100  |       |            |            | Grams             |



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