



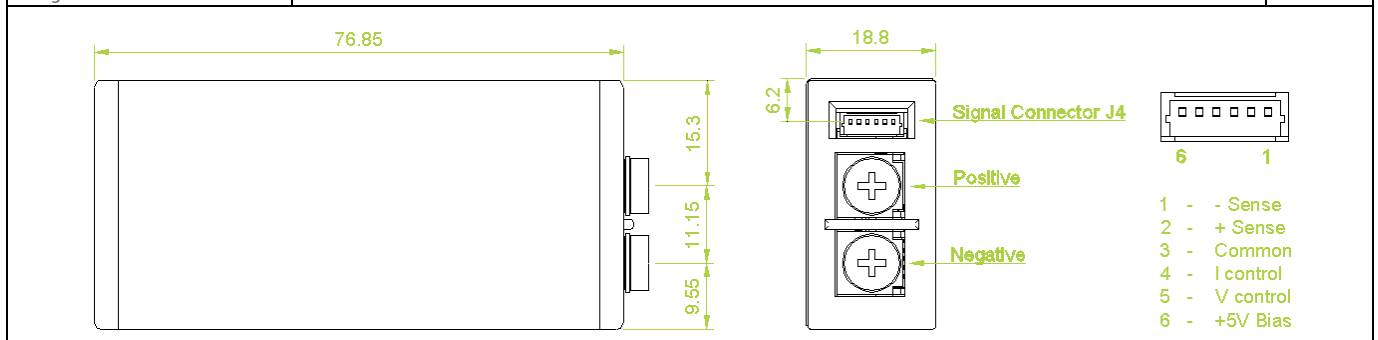
VCCM600 SERIES

OUTPUT MODULE A: 1.5V-7.5V,25A, 125W

OPA DATASHEET



| OUTPUT MODULE A SPECIFICATIONS | | | | | |
|----------------------------------|--|-------|------------|------------|-------------------|
| Parameter | Details | Min | Typical | Max | Units |
| Output Voltage Range | Manual adjustment | 1.5 | 5 | 7.5 | Volts |
| Output Current Rating | | | | 25 | Amps |
| Output Power Rating | | | | 125 | Watts |
| Peak Power Rating | Maximum 5 seconds | | | 187.5 | Watts |
| Initial voltage setting accuracy | Factory set units | -0.5 | | 0.5 | % |
| Load Regulation | Measured at sense terminals | -50 | | 50 | mV |
| Line Regulation | Measured at sense terminals | -0.1 | | 0.1 | %V _{NOM} |
| Cross Regulation | Measured at sense terminals | -0.2 | | 0.2 | %V _{NOM} |
| Minimum load | | 0 | | | Watts |
| Temperature coefficient | | -0.02 | | +0.02 | %/°C |
| Ripple and Noise | 20MHz BW, pk-pk | | | 1 | %V _{NOM} |
| Transient response | 25% to 75% load transient at 1A/uS Recovery to within 10% of V _{SET} | | | 1 | Volts |
| Turn on rise time | Monotonic 10% to 90% | 1.5 | | 3.5 | mS |
| Turn on overshoot | | | | 0.1 | %V _{SET} |
| Turn on delay | AC to PG EN to PG | | 2000 15 | 3000 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 _{NOM} |
| Holdup voltage | | | | 6 | 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) | | 125/3/1 | | mS/%V |
| Over Voltage Protection | | | 9.5 | | Volts |
| Over Temperature Protection | Various locations | 115 | | 125 | °C |
| Sense Cable Protection | Positive Negative | -1 | | 2 1 | Volts |
| Power Good Threshold | Low threshold only | | 90 | | %V _{SET} |
| 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 _{SET} |
| 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 | | 12 | 10 | | AWG |
| Size | 77 (L) x 18.8 (W) x 36 (H) | | | | mm |
| Weight | 100 | | | | Grams |



All specifications are believed to be correct at time of publishing. Vox Power Ltd reserves the right to make changes to any of its products and to change or improve any part of the specification, electrical or mechanical design or manufacturing process without notice. Vox Power Ltd does not assume any liability arising out of the use or application of any of its products and of any information to the maximum extent permitted by law. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any products of Vox Power Ltd. VOX POWER LTD DISCLAIMS ALL WARRANTIES AND REPRESENTATIONS OF ANY KIND WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF SUITABILITY, FITNESS FOR PURPOSE, MERCHANTABILITY AND NON-INFRINGEMENT.

Please consult your local distributor or Vox Power directly to ensure that you have the latest revision before using the product and refer to the latest relevant user manual for further information relating to the use of the product. Vox Power Ltd products are not intended for use in connection with life support systems, human implantations, nuclear facilities or systems, aircraft, spacecraft, military or naval missile, ground support or control equipment used for the purpose of guidance navigation or direction of any aircraft, spacecraft or military or naval missile or any other application where product failure could lead to loss of life or catastrophic property damage. The user will hold Vox Power Ltd harmless from any loss, cost or damage resulting from its breach of these provisions.