



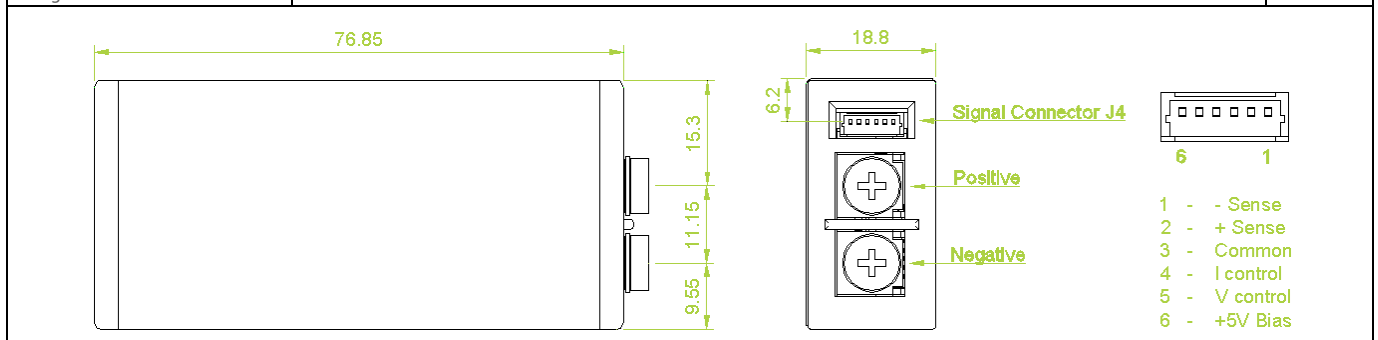
VCCM600 SERIES

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 | | 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 |



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