

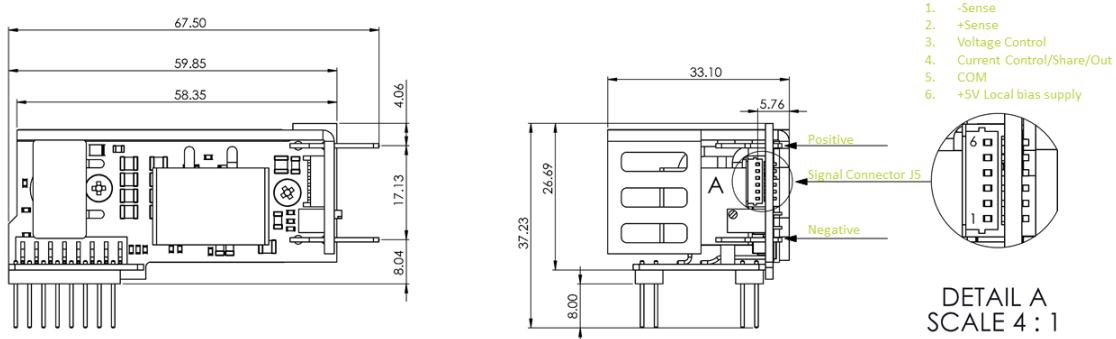


NEVO+ SERIES

OPA3 DATASHEET

Output Module A3: 9V-30V,15A, 300W

OUTPUT MODULE A3 SPECIFICATIONS		Min	Typical	Max	Units
Parameter	Details				
Output Voltage Range	Manual adjustment	9	24	30	Volts
Output Current Rating				15	Amps
Output Power Rating				300	Watts
Peak Power Rating	Maximum 5 seconds			450	Watts
Initial voltage setting accuracy	Factory set units	-0.5		0.5	%
Load Regulation	Measured at sense terminals	-150		150	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 0.25A/uS Recovery to within 10% of V _{SET}		3	100	Volts uS
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	600 15		750 20	mS mS
Current share accuracy	Error from ideal sharing current. Valid for loads > 20% of rating.	-5		+5	%I _{MAX}
Open Sense offset	Voltage offset between sense lines and output terminals when sense lines unused			2	%V _{NOM}
Holdup voltage				24	Volts
Isolation to ground	Each output terminal			250	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)		125/3/3.5		mS/%V
Over Voltage Protection			36		Volts
Over Temperature Protection	Various locations	115		125	°C
Sense Cable Protection	Positive	-1		2	Volts
	Negative			1	Volts
Power Good Threshold	Low threshold only		90		%V _{SET}
Current Output Signal	ISIG=0.6+I _{OUT} /(RTD*1.25)	0		110	%Rated
Current Limit Control	ILMT = (VCTRL-0.6)*RTD*1.25	0		110	%Rated
Remote Voltage Control	V _{OUT} =V _{SET} ((1.8-VCTRL)/0.6)	0		300	%V _{SET}
Bias Supply	10mA Max	4.5	5	5.2	Volts
Reliability	40°C 80% load			1	FPMH
Warranty				3	Years
Wire Size		16	14	10	AWG
Size	60 (L) x 35 (W) x 35 (H)				mm
Weight	70				Grams



IMPORTANT NOTE

**NEVO+ SERIES A3 MODULES CAN ONLY BE USED WITH NEVO+600 CHASSIS WITH DATE CODES FROM 2048 ONWARDS.
EG. 2048C080000 CAN USE A3 MODULE, 2047C089999 CANNOT USE A2 MODULE.**

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 NONINFRINGEMENT. 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.

