VOXPOWER

OUTPUT MODULE A2 SPECIFICATIONS

Parameter	Details	Min	Typical	Max	Units
Output Voltage Range	Manual adjustment	4.5	12	15	Volts
Output Current Rating				25	Amps
Output Power Rating				300	Watts
Peak Power Rating	Maximum 5 seconds			375	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_{NOM}
Cross Regulation	Measured at sense terminals	-0.2		0.2	%V_{NOM}
Minimum load		0			Watts
Temperature coefficient		-0.02		+0.02	%/$^\circ$C
Ripple and Noise	20MHz BW, pk-pk			1	%V_{NOM}
Transient response	25% to 75% load transient at 0.5A/uS			2	Volts
	Recovery to within 10% of V_{SET}			100	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		600	750	mS
	EN to PG		15	20	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				12	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)		125/3/2		mS/%/V
Over Voltage Protection			18		Volts
Over Temperature Protection	Various locations	115		125	$^\circ$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+IOUT/(IRTD*1.25)	0		125	%Rated
Current Limit Control	ILMT = (VCTRL-0.6)*IRTD*1.25	0		100	%Rated
Remote Voltage Control	VOUT=VSET((1.8-VCTRL)/0.6)	0		131.5	%V_{SET}
Bias Supply	10mA Max	4.5		5.2	Volts
Reliability	40°C 80% load			1	FPMH
Warranty				3	Years
Wire Size		12	10		AWG
Size	60 (L) x 35 (W) x 35 (H)				mm
Weight	70				Grams

1. -Sense
2. +Sense
3. Voltage Control
4. Current Control/Share/Out
5. COM
6. +5V Local bias supply

DETAIL A
SCALE 4 : 1
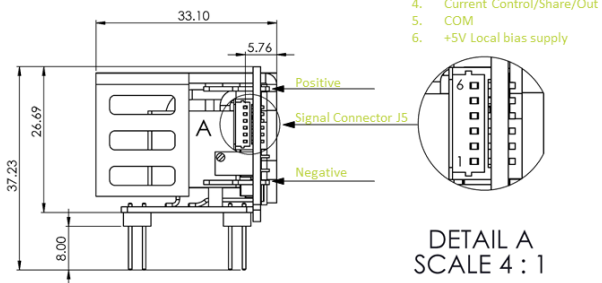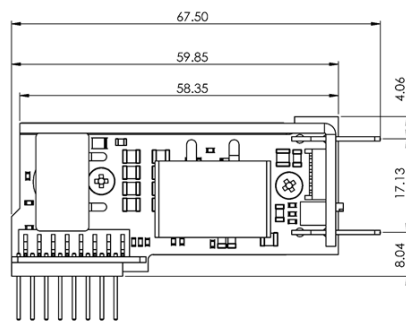
IMPORTANT NOTE
NEVO+ SERIES A2 MODULES CAN ONLY BE USED WITH NEVO+600 CHASSIS WITH DATE CODES FROM 2048 ONWARDS.
EG. 2048C080000 CAN USE A2 MODULE, 2047C089999 CANNOT USE A2 MODULE.

Vox Power Limited | Unit 2, Red Cow Interchange Estate, Ballymount, Dublin 22, D22 Y8H2, Ireland | T +353 1 4591161 | www.vox-power.com

DOC-DTS-031-02, NEVO+ Series Output A2 Datasheet

021-50342560   13764303579   roman.xiao@fitpower.cn   www.fitpower.cn