



# NEVO+ SERIES

OUTPUT MODULE 1: 1.5V-7.5V,25A, 125W

## OP1 DATASHEET



OUTPUT 1 SPECIFICATIONS					
Parameter	Details	Min	Type	Max	Units
Output voltage range	See table	1.5	5	7.5	V
Rated current				25	A
Average output power				125	Watts
Peak output power	See graph, < 5 seconds 50% duty cycle			187.5	Watts
Initial voltage accuracy	Factory set units	-0.5		0.5	%
Manual Voltage Adjust	11 turn potentiometer		0.545		V/turn
Load Regulation	Measured at sense terminals	-50		50	mV
Line Regulation	Measured at sense terminals	-0.1		0.1	%Vnom
Cross Regulation	Measured at sense terminals	-0.2		0.2	%Vnom
Minimum Load				0	Watts
Temperature coefficient		-0.02		0.02	%/°C
Ripple and Noise	20MHz BW, pk-pk			1	%Vnom
Transient response	25% to 75% load transient at 1A/us Recovery to within 10% of Vset			1	V
Turn on rise time	Monotonic 10% to 90%	1.5		3.5	mS
Turn on overshoot				0.1	%Vset
Turn on delay	AC to PG En to PG		600 15	750 20	mS
Current share accuracy				5	%Imax
Open sense offset	Open sense, voltage offset due to bias currents			2	%Vnom
Holdup voltage				6	V
Isolation to ground	Each terminal			250	V
Over current protection	% of rated current	105		125	%rated
Reverse current protection	% of rated current	-6		0	%rated
Short circuit protection (Hiccup mode)	Period		125		mS
	Duty cycle		3		%
	Voltage threshold (Measured at sense terminals)		1		V
Over voltage protection	Latching		9.5		V
Over Temperature protection	Internally monitored. Latching	115		125	°C
Sense cable protection	Positive	-1		2	V
	Negative			1	V
Power Good threshold	Low threshold only		90		%Vset
Current output signal	ISIG=0.6+IOUT/(IRTD*1.25)	0		110	%Irated
Current limit control	ILMT = (VCTRL-0.6)*IRTD*1.25	0		110	%Irated
Remote voltage control	VOUT=VSET*((1.8-VCTRL)/0.6)	0		300	%Vset
Bias supply	10mA max	4.5	5	5.2	V
Reliability	40°C 80% load			1	FPMH
Warranty				2	Years
Wire Size		12	10		AWG
Weight				60	Grams
Size	60mm x 35mm x 17mm				

Notes: All specifications are believed to be correct at time of publication and are subject to change without notice.

