

c **FL**[®]us

NEVO+ SERIES OUTPUT MODULE 3: 9V-30V, 7.5A, 150W

OP3 DATASHEET

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DOC-DTS-013-01, NEVO+ series output 3 datasheet

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OUTPUT 3 SPECIFICATIONS					
Parameter	Details	Min	Тур	Max	Units
Output voltage range	See table	9	24	30	V
Rated current				7.5	A
Average output power				150	Watts
Peak output power	See graph, < 5 seconds 50% duty cycle			225	Watts
Initial voltage accuracy	Factory set units	-0.5		0.5	%
Manual Voltage Adjust	11 turn potentiometer		1.9		V/turn
Load Regulation	Measured at sense terminals	-150		150	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 0.25A/uS			3	V
	Recovery to within 10% of Vset			100	uS
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		600	750	mS
	En to PG		15	20	mS
Current share accuracy				5	%lmax
Open sense offset	Open sense, voltage offset due to bias currents			2	%Vnom
Holdup voltage				25	V
Isolation to ground	Each terminal			250	V
Over current protection	% of rated current	105		125	%rated
Reverse current protection	% of rated current	-б		0	%rated
	Period		125		mS
Short circuit protection	Duty cycle		3		%
(Hiccup mode)	Voltage threshold (Measured at sense terminals)		3.5		V
Over voltage protection	Latching		36		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		20	18	10	AWG
Weight				60	Grams
Size	60mm x 35mm x 17mm				2.0

CB

CE

FC

D

ande 25

2

3

40

35 30

15 Manua

10 5

> 0 0

25

20

5

0

0

1.5

0 -1.5

-4.5 -6

-7.5 -9 -0.75

0.05 0.04 0.03 0.02 0.01 Volts 0 -0.01 -0.02 -0.03 -0.04

> -0.05 -10 -8 -6 -4 -2 0 2 4 6 8 10

Volts -3 2

-0.55

4

6 mS

-0.35

mS

RIPPLE

uS

-0.15

0.05

TRANSIENT RESPONSE

Volts (Vout) 15 10

Volts 20 trij



OUTPUT 3 POWER PROFILE

CONTINIOUS POWER

OVP

5

Amps

STOP/START



-DO

9

20 18

16

14

4

2

0

12

10

6

2

0.25

Amps

14

Peak pov

HICCUP

8

7

50n

6

10

12