

#### **NEVO+600 SERIES**



- Configurable
- Reduced fan noise
- Enhanced Line Derating



600 watt in the palm of your hand

The enhanced NEVO+ series features improved low input line derating delivers 600 watts without the need to derate for line voltages above 120Vac making the NEVO+ the ultimate power solution for products destined for the global market. Through the implementation of a fan control circuit the NEVO+ also features reduced fan noise. The NEVO+ delivers up to 600 watts from a 600 gram 5" x 3" x 1U package and consists of an input module together with up to eight isolated output modules. The series carry full UL60601 3<sup>rd</sup> ED safety approvals and comply with EN61000-3, EN61000-4 and EN550022-B EMC standards.

#### **MAIN FEATURES:**

- No Line derating above 120VAC
- Reduced fan noise
- 600 watt output
- 5" x 3" x 1U footprint
- High power density (25W/in<sup>3</sup>)
- UL 60601 3<sup>rd</sup> ED

- **High reliability**
- High efficiency up to 89%
- Only 0.6kg 100W/kg
- I<sup>2</sup>C control option
- Remote current/voltage programming
- **Current output signal**

- Accurate current sharing
- 5V 200mA bias supply
- **RoHS** compliant
- Field configurable
- Two year warranty

#### SYSTEM SPECIFICATIONS

INPUT ELECTRICAL						
Param	eter	Details	Min	Тур	Max	Units
AC Inp	ut Voltage	Nominal range is 100Vrms to 240Vrms	85		264	Vrms
AC Inp	ut Frequency	Contact factory for 400Hz operation.	47	50/ 60	63	Hz
DC Inp	ut Voltage	Medical	120		300	Vdc
Power	Rating	See graphs for deratings			600	Watts
Input C	urrent	600Watts output at 120Vrms input			6	Amps
Inrush	Current	265Vrms (cold start)			20	Amps
Fusing		5x20 Fast acting			8	Amps
Input C	Current Limit	Maintains power factor		8		Amps
Efficier	ıcy	See graphs		86	89	%
Idle Po	wer	All outputs fitted and enabled		28		Watts
Idle Po	wer	All outputs fitted and Disabled		21		Watts
Power Factor		Typical value for 300Watts output at 240Vrms input		0.96	0.99	
Holdup	)	600Watts output at 120Vrms input	17	20	21	mS
UVLO		Turn on only	78		84	Vrms
Over to	emperature	Internally monitored. Latching	115		125	°C
Reliabi	lity	40°C 80% load			2	FPMH
	Bias Voltage		4.8	5	5.2	V
	Bias current		0		200	mA
	Power Good voltage	PNP open collector with internal 10k pull down resistor	8	10	15	V
S	Power Good current		0		20	mA
- е	Inhibit voltage		2		15	V
- B	Inhibit current	10k ohm input impedance	0.2		1.5	mA
S i	Global inhibit voltage		3		15	V
	Global inhibit current	5k ohm input impedance	0.6		3	mA
	AC_OK voltage		1		4	V
	AC_OK current		-10		20	mA
	AC_OK warning	See user manual for exceptions	5			mS

INSTALLATION			
Parameter	Details	Parameter	Details
Equipment class	1	Flammability rating	94V-2
Installation category	Ш	IP Rating	IP10
Pollution degree	2	ROHS Compliance	2002/95/EC
Material group	IIIb (indoor use only)		

RELIABILITY					
Component	Details	Min	Max	Units	
FAN	Mag Lev Std		2.7	FPMH	
INPUT	Excluding FAN		2	FPMH	
OUTPUT	See individual output datasheets		1	FPMH	
Warranty			2	Years	

	SAFETY			
Parameter	Details	Min	Max	Units
	Input to Output		4000	Vac
Isolation	Input to Chassis		1500	Vac
Voltage	Output to Chassis		250	Vdc
	Output to Output		250	Vdc
Isolation	Primary to Secondary (Reinforced)	7		mm
Clearance	Primary to Chassis (Basic)	2.5		mm
Isolation Creepage	Primary to Secondary (Reinforced)	12		mm
	Primary to Chassis (Basic)	4		mm
Leakage Current	Medical: 265Vac, 63Hz, 25°C		300	uA

MECHANICAL			
Parameter	Details		
Size	77.7mm x 133.7mm x 41.0mm (all external dimensions ± 1.0mm)		
Weight	360 gram +60 gram per output module		
Mounting	Bottom or Side mounting (See diagram for details)		

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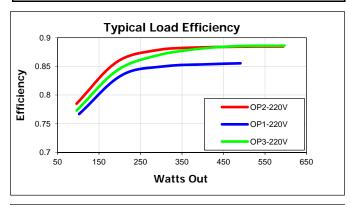


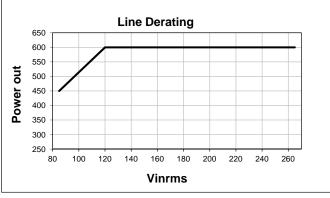
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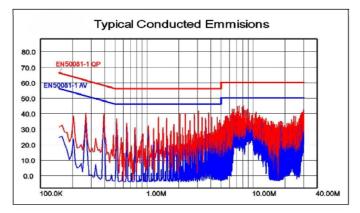
		ENVIRONMENTAL						
	Parameter	Details	Min	Max	Units			
р0 О	Temperature		-40	+85	°C			
O.S.	Humidity	Relative, non-condensing	5	95	%			
Stora	Altitude		-200	5000	m			
	Air Pressure		54	106	kPa			
		Full power	-20	50	°C			
	Temperature	Derate input and outputs at 2.5%/°C	50	70	°C			
_	Humidity	Relative, non-condensing	5	95	%			
peration	Altitude	(-200 to 2000m for UL60601-1)	-200	3000	m			
- a	Air Pressure		78	106	kPa			
0 p (	Noise Level	Variable. Measured 1m from fan intake	35	60	dBA			
	Shock	3000 bumps at 10G (16ms) half sin	ie wave					
	Vibration	1.5G 10 to 200Hz sine wave, 20G for random vibration	1.5G 10 to 200Hz sine wave, 20G for 15min in 3 axes					

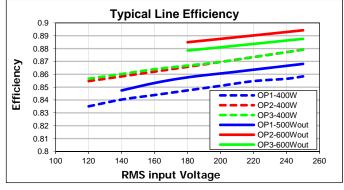
AGENCY APPROVALS						
Standard	Details	Standard	Details			
IEC/EN60601-1	3 <sup>rd</sup> ED					
UL60601-1						
CSA-C22.2 No. 60601-1-08						
CE MARK	LVD 73/23/EEC	UL file number	UL: E316486			
CB certificate and	CB certificate and report available on request					

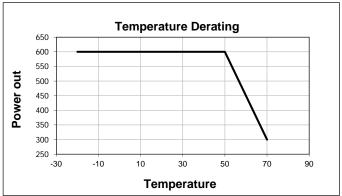




		EMC	
	Parameter	Standard	Level
suc	Radiated electric field	EN55011, EN55022, FCC	В
Emissions	Conducted emissions	EN55011, EN55022, FCC	В
Em	Harmonic Distortion	EN61000-3-2	Compliant
	Flicker & Fluctuation	EN61000-3-3	Compliant
	Electrostatic discharge	EN61000-4-2 (15kV air, 8kV contact)	4
	Radiated RFI	EN61000-4-3 (10V/m)	3
nity	Fast Transient burst	EN61000-4-4 (4kV)	4
mmunity	Input line surges	EN61000-4-5 (1kV L-N, 2kV L-E)	3
=	Conducted RFI	EN61000-4-6 (10V)	4
	Power Freq. Magnetic Field	EN61000-4-8 (10A/m)	3
	Voltage Dips	EN61000-4-11 (EN55024)	Compliant







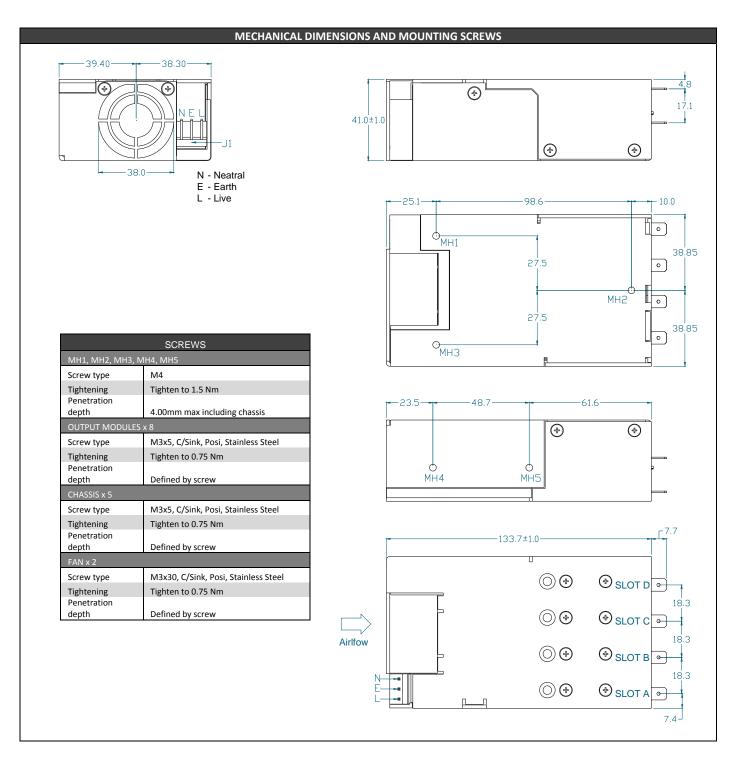
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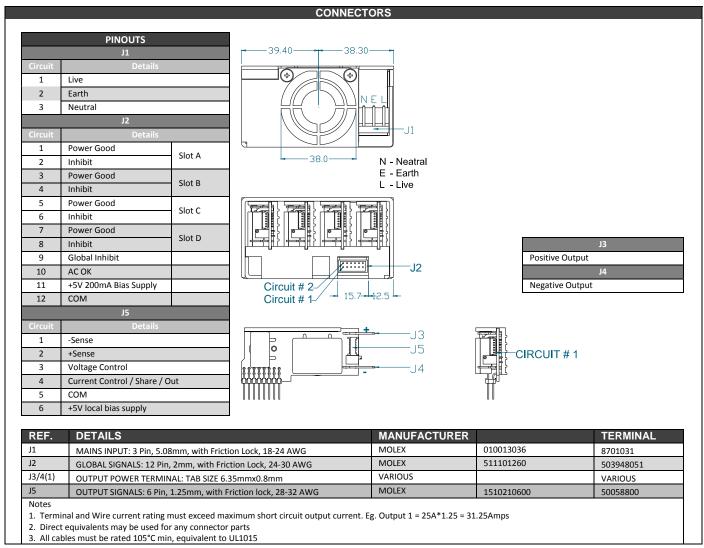


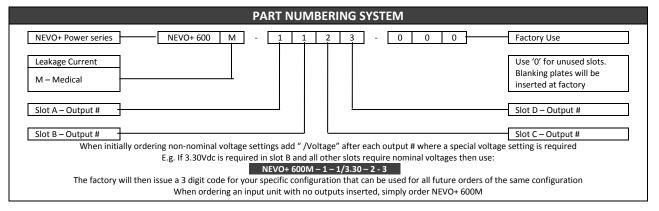
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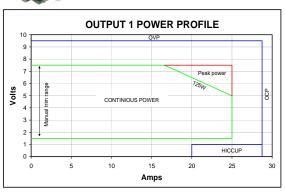


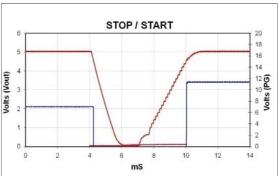
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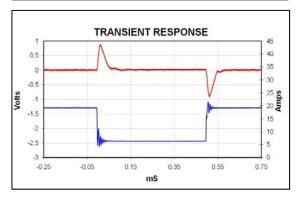


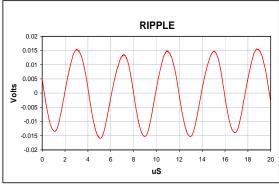
**Patents pending** 

	OUTPUT 1 SPECIFICA	TION	S		
Parameter	Details	Min	Тур	Max	Units
Output voltage range	See table	1.5	5	7.5	٧
Rated current				25	Α
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		0.00		0.00	0//00
coefficient		-0.02		0.02	%/°C
Ripple and Noise	20MHz BW, pk-pk			1	%Vnom
	25% to 75% load transient at			1	v
Transient response	1A/us			1	V
Transient response	Recovery to within 10% of			100	uS
	Vset				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
ruin on delay	En to PG		15	20	mS
Current share accuracy				5	%Imax
Open sense offset	Open sense, voltage offset due to bias currents			2	%Vnom
Holdup voltage				6	٧
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
	Period		125		mS
Short circuit	Duty cycle		3		%
protection (Hiccup mode)	Voltage threshold (Measured		4		١.,
mode)	at sense terminals)		1		V
Over voltage	Latching		9.5		V
protection			3.3		V
Over Temperature protection	Internally monitored. Latching	115		125	°C
Sense cable protection	Positive Negative	-1		2 1	V
Power Good threshold	Low threshold only		90	-	%Vset
Current output signal	I <sub>SIG</sub> =0.6+I <sub>OUT</sub> /(I <sub>RTD</sub> *1.25)	0	30	110	%Irated
Current limit control	$I_{LMT} = (V_{CTRL} - 0.6) * I_{RTD} * 1.25$	0		110	%Irated
Remote voltage					
control	$V_{OUT} = V_{SET}((1.8 - V_{CTRL})/0.6)$	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				5.31113
	ved to be correct at time of publication and	are subject	t to change	without not	ice.









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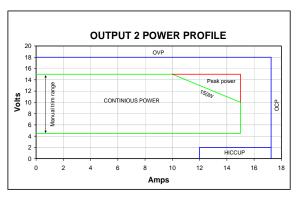


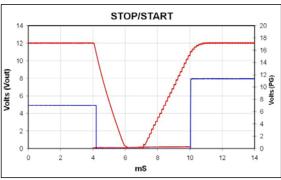


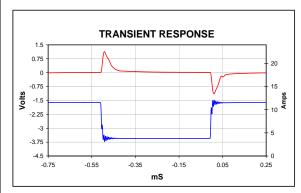
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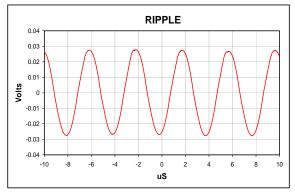
Patents pending

OUTPUT 2 SPECIFICATIONS					
Parameter	Details	Min	Тур	Max	Units
Output voltage range	See table	4.5	12	15	V
Rated current				15	Α
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		0.954		V/turn
Load Regulation	Measured at sense terminals	-100		100	mV
Line Regulation	Measured at sense terminals	-0.1		0.1	%Vnor
Cross Regulation	Measured at sense terminals	-0.2		0.2	%Vnor
Minimum Load				0	Watts
Temperature coefficient		-0.02		0.02	%/°C
Ripple and Noise	20MHz BW, pk-pk			1	%Vnor
Transient response	25% to 75% load transient at 0.5A/uS Recovery to within 10% of			1.5	V
	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	%Imax
Open sense offset	Open sense, voltage offset due to bias currents			2	%Vnoi
Holdup voltage				12.5	V
Isolation to ground	Each terminal			250	V
Over current protection	% of rated current	105		125	%rate
Reverse current protection	% of rated current	-6		0	%rate
Chart singuit	Period		125		mS
Short circuit protection (Hiccup	Duty cycle		3		%
mode)	Voltage threshold (Measured at sense terminals)		2		V
Over voltage protection	Latching		18		V
Over Temperature protection	Internally monitored. Latching	115		125	°C
Sense cable protection	Positive Negative	-1		2	V V
Power Good threshold	Low threshold only		90		%Vset
Current output signal	I <sub>SIG</sub> =0.6+I <sub>OUT</sub> /(I <sub>RTD</sub> *1.25)	0		110	%Irate
Current limit control	$I_{LMT} = (V_{CTRL} - 0.6) * I_{RTD} * 1.25$	0		110	%Irate
Remote voltage control	V <sub>OUT</sub> =V <sub>SET</sub> ((1.8-V <sub>CTRL</sub> )/0.6)	0		300	%Vset
Bias supply	10mA max	4.5	5	5.2	V
Reliability	40°C 80% load	5		1	FPMH
Warranty				2	Years
Wire Size		16	14	10	AWG
Weight				60	Grams
Size	60mm x 35mm x 17mm				Granis
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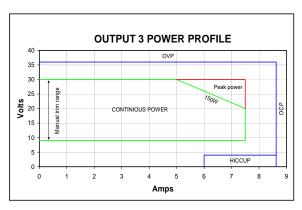


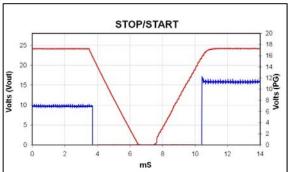
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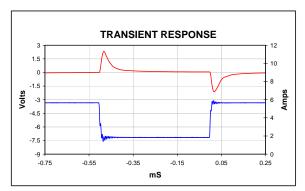
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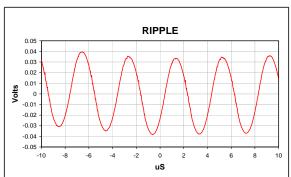
**Patents pending** 

	OUTPUT 3 SPECIFICA	TIONS	S		
Parameter	Details	Min	Тур	Max	Units
Output voltage range	See table	9	24	30	V
Rated current				7.5	Α
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 Recovery to within 10% of			3 100	V uS
Town on the bins	Vset	1 -		2.5	C
Turn on rise time	Monotonic 10% to 90%	1.5		3.5	mS n()/aat
Turn on overshoot	AC+- DC		600	0.1	%Vset
Turn on delay	AC to PG		600	750	mS
C	En to PG		15	20	mS
Current share accuracy				5	%Imax
Open sense offset	Open sense, voltage offset due to bias currents			2	%Vnom
Holdup voltage				25	V
Isolation to ground	Each terminal			250	٧
Over current protection	% of rated current	105		125	%rated
Reverse current protection	% of rated current	-6		0	%rated
Short circuit	Period		125		mS
protection (Hiccup	Duty cycle		3		%
mode)	Voltage threshold (Measured		3.5		v
•	at sense terminals)		3.5		<b>V</b>
Over voltage	Latching		36		V
protection	5				
Over Temperature protection	Internally monitored. Latching	115		125	°C
Sense cable protection	Positive Negative	-1		2 1	V
Power Good threshold	Low threshold only		90		%Vset
Current output signal	I <sub>SIG</sub> =0.6+I <sub>OUT</sub> /(I <sub>RTD</sub> *1.25)	0		110	%Irated
Current limit control	$I_{LMT} = (V_{CTRL} - 0.6) * I_{RTD} * 1.25$	0		110	%Irated
Remote voltage control	V <sub>OUT</sub> =V <sub>SET</sub> ((1.8-V <sub>CTRL</sub> )/0.6)	0		300	%Vset
Bias supply	10mA max	4.5	5	5.2	٧
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				
Notes: All specifications	are believed to be correct at time	of publi	cation ar	nd are su	bject to
change without notice.					









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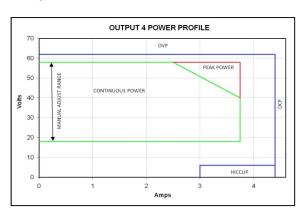


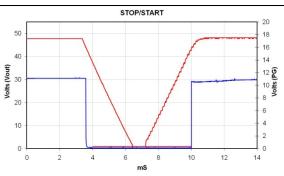
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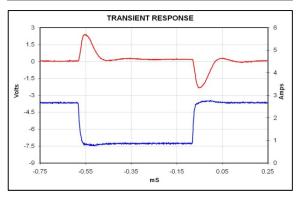
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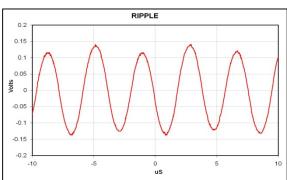
**Patents pending** 

OUTPUT 4 SPECIFICATIONS					
Parameter	Details	Min	Тур	Max	Units
Output voltage range	See table	18	48	58	V
Rated current				3.75	Α
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		3.6		V/turr
Load Regulation	Measured at sense terminals	-300		300	mV
Line Regulation	Measured at sense terminals	-0.1		0.1	%Vno
Cross Regulation	Measured at sense terminals	-0.2		0.2	%Vno
Minimum Load				0	Watts
Temperature coefficient		-0.02		0.02	%/°C
Ripple and Noise	20MHz BW, pk-pk			1	%Vno
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 En to PG		600 15	750 20	mS mS
Current share accuracy				5	%Ima
Open sense offset	Open sense, voltage offset due to bias currents			2	%Vno
Holdup voltage				50	٧
Isolation to ground	Each terminal			250	V
Over current	0/ 25 22 24 2 22 24	405		425	0/ 1 -
protection	% of rated current	105		125	%rate
Reverse current protection	% of rated current	-6		0	%rate
Short circuit	Period		125		mS
protection (Hiccup	Duty cycle		3		%
mode)	Voltage threshold (Measured at sense terminals)		3.5		V
Over voltage protection	Latching		66		V
Over Temperature protection	Internally monitored. Latching	115		125	°C
Sense cable protection	Positive Negative	-3		3 2	V V
Power Good threshold	Low threshold only		90		%Vset
Current output signal	I <sub>SIG</sub> =0.6+I <sub>OUT</sub> /(I <sub>RTD</sub> *1.25)	0		110	%Irate
Current limit control	$I_{LMT} = (V_{CTRL} - 0.6) * I_{RTD} * 1.25$	0		110	%Irate
Remote voltage control	V <sub>OUT</sub> =V <sub>SET</sub> ((1.8-V <sub>CTRL</sub> )/0.6)	0		300	%Vse
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	Gram
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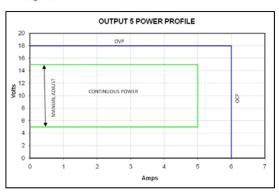
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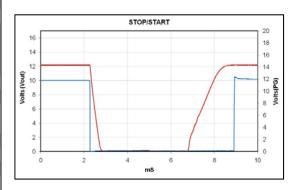


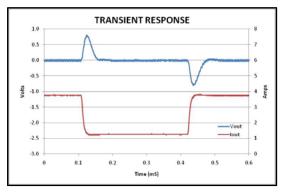


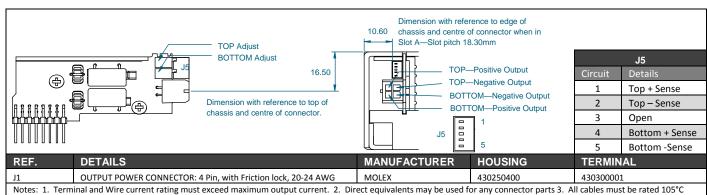
# NEVO SERIES OP5 CFL us CE D

OUTPUT 5 SPECIFICATIONS					
Parameter	Details	Min	Тур	Max	Units
Output voltage range	Each channel	5	12	15	V
Rated current	Each channel			5	Α
Rated power	Each channel		60	75	Watts
Initial voltage accuracy	Factory set units	-1		1	%
Manual Voltage Adjust	11 turn potentiometer		0.9		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			2	%Vset
Transient response	25% to 75% load transient at 1A/uS			1	V
(Vset = 5V)	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
Turn on aciay	En to PG		30	40	mS
Holdup voltage				12	V
Isolation to ground	Each terminal			250	V
Over current protection	Hiccup mode only	105		130	%rated
Reverse current protection	None				
Short circuit protection	Period		30		mS
(Hiccup mode)	Duty cycle		1		%
Over voltage protection	Latching		20		V
Over Temperature protection	Internally monitored. Latching	115		125	°C
Power Good thresholds	High and Low window	68		120	%Vset
Reliability	25°C, 100% load, Telcordia			1	FPMH
Warranty				2	Years
Wire Size		20	18	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					









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min, equivalent to UL1015

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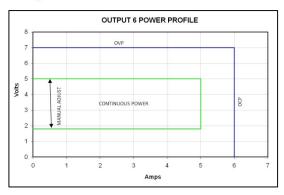
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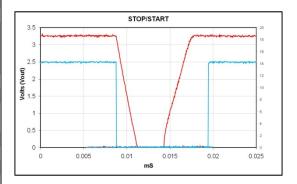


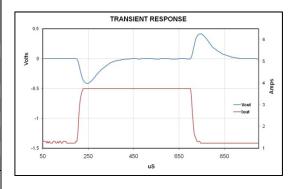


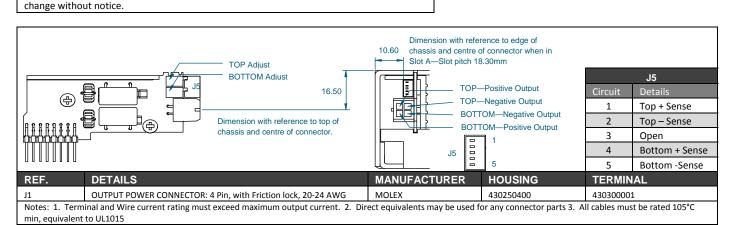
# NEVO SERIES OP6 CF D US

OUTPUT 6 SPECIFICATIONS					
Parameter	Details	Min	Тур	Max	Units
Output voltage range	Each channel	1.8	3.3	5	V
Rated current	Each channel			5	Α
Rated power	Each channel		16.5	25	Watts
Initial voltage accuracy	Factory set units	-1		1	%
Manual Voltage Adjust	11 turn potentiometer		0.3		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			2	%Vset
Transient response	25% to 75% load transient at 1A/uS			0.5	V
(Vset = 5V)	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
Turn on delay	En to PG		15	20	mS
Holdup voltage				5	V
Isolation to ground	Each terminal			250	V
Over current protection	Hiccup mode only	105		130	%rated
Reverse current protection	None				
Short circuit protection	Period		30		mS
(Hiccup mode)	Duty cycle		1		%
Over voltage protection	Latching		8		V
Over Temperature protection	Internally monitored. Latching	115		125	°C
Power Good thresholds	High and Low window	68		120	%Vset
Reliability	25°C, 100% load, Telcordia			1	FPMH
Warranty				2	Years
Wire Size		24	22	20	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					









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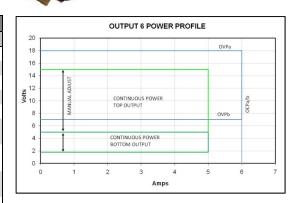
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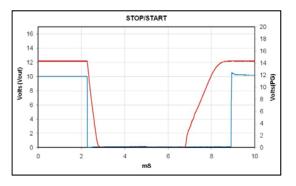


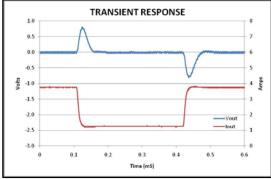


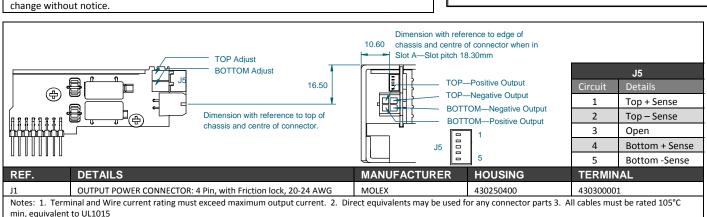
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OUTPUT 7 SPECIFICATIONS							
Parameter	Details	Min	Тур	Max	Units		
Output voltage range	Top/Bottom channel	1.8/5	3.3/12	5/15	V		
Rated current	Each channel			5	Α		
Rated power	Top/Bottom channel		60/16.5	75/25	Watts		
Initial voltage accuracy	Factory set units	-1		1	%		
Manual Voltage Adjust	11 turn potentiometer		0.3/0.9		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			2	%Vset		
Transient response (Vset = 5V)	25% to 75% load transient at 1A/uS			1/0.5	V		
	Recovery to within 10% of Vset			100	uS		
Turn on rise time	Monotonic 10% to 90%	1		3.5	mS		
Turn on overshoot				0.1	%Vset		
Turn on delay	AC to PG		600	750	mS		
rum on acidy	En to PG		15	20	mS		
Holdup voltage				12/5	V		
Isolation to ground	Each terminal			250	V		
Over current protection	Hiccup mode only	105		130	%rated		
Reverse current protection	None						
Short circuit protection	Period		30		mS		
(Hiccup mode)	Duty cycle		1		%		
Over voltage protection	Latching		20/8		V		
Over Temperature protection	Internally monitored. Latching	115		125	°C		
Power Good thresholds	High and Low window	68		120	%Vset		
Reliability	25°C, 100% load, Telcordia			1	FPMH		
Warranty				2	Years		
Wire Size		24	22	20	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							









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