

NEVO+600 SERIES



- Modular
- Configurable
- Patents pending
- 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 four isolated output modules. The series carry full UL60601 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/in³)
- ✓ Medical approvals

- ✓ High reliability
- √ High efficiency up to 89%
- ✓ Only 0.6kg 100W/kg
- ✓ I²C 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						
Parame	eter	Details	Min	Тур	Max	Units
AC Input Voltage		Nominal range is 100Vrms to 240Vrms	85		264	Vrms
AC Input Frequency		Contact factory for 400Hz operation.	47	50/ 60	63	Hz
DC Inpu	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	urrent Limit	Maintains power factor		8		Amps
Efficien	су	See graphs		86	89	%
Idle Pov	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 te	mperature	Internally monitored. Latching	115		125	°C
Reliabil	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
v	Power Good current		0		20	mA
a l	Inhibit voltage		2		15	V
u 8	Inhibit current	10k ohm input impedance	0.2		1.5	mA
S i 8	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	II	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)		

Distributed By:

Vox Power Ltd.
Terenure Enterprise Centre
17 Rathfarnham Road
Terenure, Dublin 6W, Ireland
Tel: +353 1 499 2245, Fax: +353 1 633 5511

Web: ww.vox-power.com



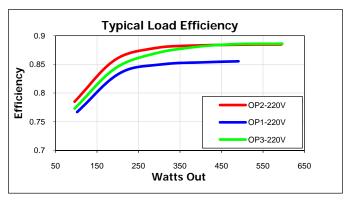
ENVIRONMENTAL °C -40 Temperature +85 Humidity Relative, non-condensing 5 % 95 Altitude -200 5000 m Air Pressure 54 106 kPa °C Full power -20 50 Temperature Derate input and outputs at 50 70 °C 2.5%/°C Humidity Relative, non-condensing 95 % Altitude (-200 to 2000m for UL60601-1) -200 3000 Air Pressure 106 78 kPa Variable. Measured 1m from fan Noise Level 35 60 dBA Shock 3000 bumps at 10G (16ms) half sine wave

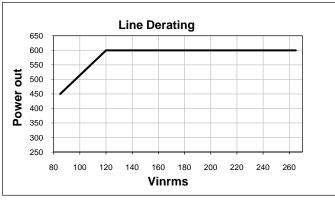
AGENCY APPROVALS					
Standard	Details	Standard	Details		
IEC/EN60601-1					
UL60601-1					
CSA-C22.2 No. 60601-1-08					
CE MARK	LVD 73/23/EEC	UL file number	UL: E316486		
CB certificate and report available on request					

random vibration

Vibration

1.5G 10 to 200Hz sine wave, 20G for 15min in 3 axes



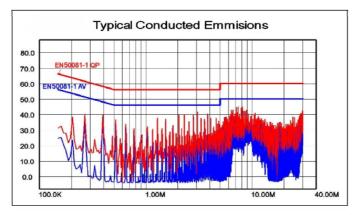


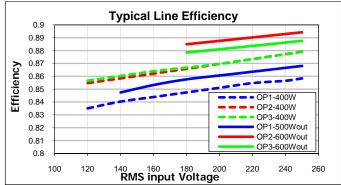
NEVO+600 SERIES

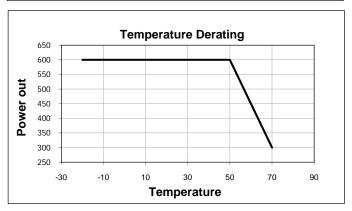


Patents pending

		EMC	
	Parameter	Standard	Level
suc	Radiated electric field	EN55011, EN55022, FCC	В
Emissions	Conducted emissions	EN55011, EN55022, FCC	В
E	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
Immunity	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





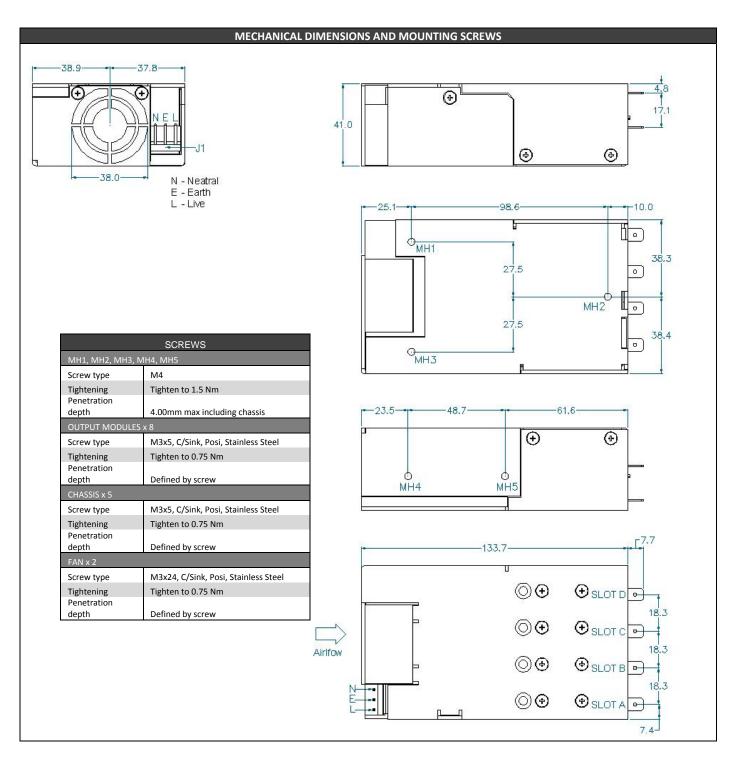


Distributed By:



NEVO+600 SERIES





Vox Power Ltd.
Terenure Enterprise Centre
17 Rathfarnham Road
Terenure, Dublin 6W, Ireland
Tel: +353 1 499 2245 Fax: +3'

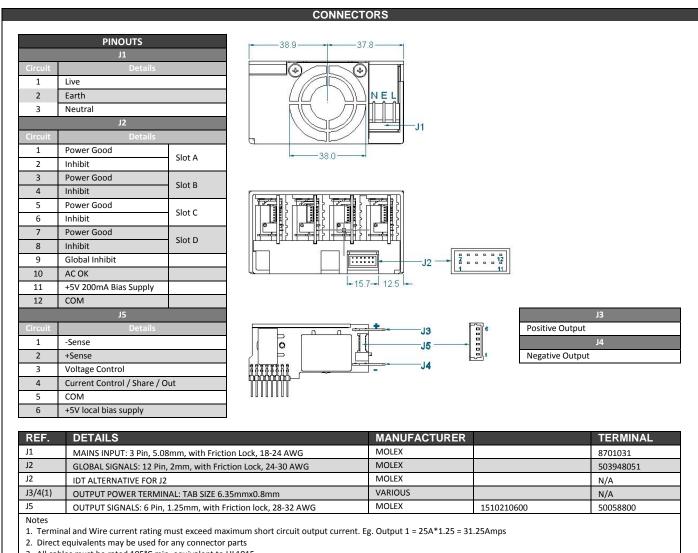
Tel: +353 1 499 2245, Fax: +353 1 633 5511

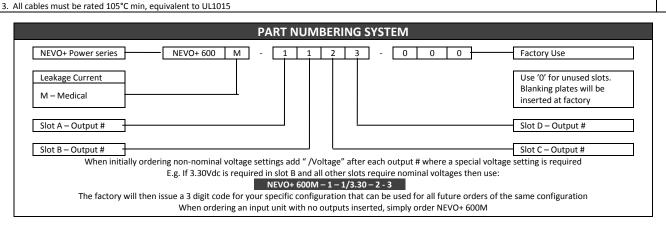
Web: ww.vox-power.com



NEVO600+ SERIES

Patents pending





Vox Power Ltd. reserves the right to change or improve any part of the specification, electrical or mechanical design or manufacturing process without notice. Please consult your local distributor or contact Vox Power to ensure that you have the latest specification before using your product. For other information relating to the use of the product please refer to the latest NEVO user manual. Vox Power reserves the right to make changes without notice to any of its products. Vox Power 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 conduct of Vox Power. VOX POWER DISCLAIMS ALL WARRANTIES AND REPRESENTATIONS. IN PARTICULAR ALL OTHER WARRANTIES, CONDITION OR TERMS RELATING TO SUITABILITY, FITNESS FOR PURPOSE, MECHANTABILITY OR CONDITION OF THE PRODUCTS AND WHETHER EXPRESS OR IMPLIED BY STATURE OR COMMON LAW OR OTHERWISE ARE EXCLUDED.

Document DOC6008 rev 00

Vox Power Ltd.
Terenure Enterprise Centre
17 Rathfarnham Road
Terenure, Dublin 6W, Ireland
Tel: +353 1 409 2245 Fav: +3

Tel: +353 1 499 2245, Fax: +353 1 633 5511

Web: ww.vox-power.com