

NEVO+600 SERIES



- Modular
- Configurable
- Reduced fan noise
- Enhanced Line Derating



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 3rd 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/in³)
- ✓ UL 60601 3rd ED

- √ 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 Inpu	ut Voltage	Nominal range is 100Vrms to 240Vrms	85		264	Vrms
AC Inpu	ut Frequency	Contact factory for 400Hz operation.	47	50/ 60	63	Hz
DC Input Voltage		Medical	120		300	Vdc
Power	Rating	See graphs for deratings			600	Watts
Input C	Current	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	ncy	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	1	600Watts output at 120Vrms input	17	20	21	mS
UVLO		Turn on only	78		84	Vrms
Over te	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
a l	Inhibit voltage		2		15	V
u a	Inhibit current	10k ohm input impedance	0.2		1.5	mA
S i g	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	П	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	Primary to Secondary (Reinforced)	12		mm		
Creepage	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)		

Vox Power Ltd.
Unit 2 Red Cow Interchange Estate
Ballymount
Dublin 24, Ireland

Tel: +353 1 459 1161, Fax: +353 1 633 5511

Web: ww.vox-power.com

Distributed By: 上海佳舍珀电子科技有限公司

电话: 021-61999334 · 13764303579

传真: 021-33250334

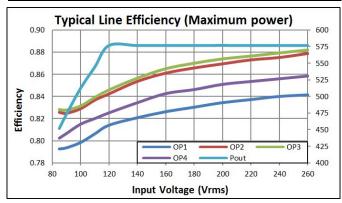


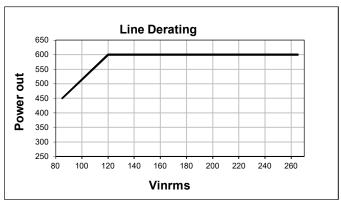
NEVO+600 SERIES



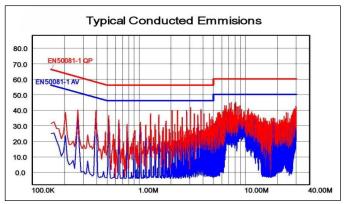
	ENVIRONMENTAL				
	Parameter	Details	Min	Max	Units
90	Temperature		-40	+85	°C
co .	Humidity	Relative, non-condensing	5	95	%
Stor	Altitude		-200	5000	m
	Air Pressure		54	106	kPa
	Temperature	Derate input and outputs at 2.5%/°C above 50°C Operates to specification below -20°C after 10 minute warm up	-40	70	°C
<u>_</u>	Humidity	Relative, non-condensing	5	95	%
eration	Altitude	(-200 to 2000m for UL60601-1)	-200	3000	m
O pera	Air Pressure		78	106	kPa
	Noise Level	Variable. Measured 1m from fan intake	35	60	dBA
	Shock	3000 bumps at 10G (16ms) half sine wave			
	Vibration	1.5G 10 to 200Hz sine wave, 20G for 15min in 3 axes random vibration			

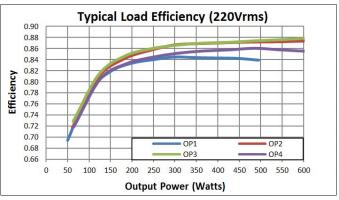
AGENCY APPROVALS				
Standard	File			
IEC 60601-1: 1998 + A1: 1991 + A2: 1995	UL: E316486			
UL60601-1: 2006				
CAN/CSA-C22.2 No. 60601-1 (2008)				
ANSI/AAMI ES60601-1 (2005 + C1:09 + A2:10)				
CE MARK - LVD 2011/65/EU				
CB certificate and report available on request				

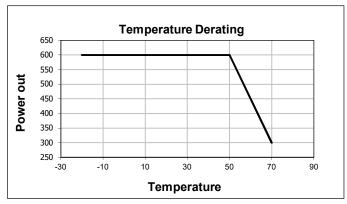




		EMC	
	Parameter	Standard	Level
suc	Radiated electric field	EN55011, EN55022, FCC	В
Emissions	Conducted emissions	EN55011, EN55022, FCC	В
E	Harmonic Distortion	EN61000-3-2	Compliant
	Flicker & Fluctuation	EN61000-3-3	Compliant
	Electrostatic discharge	EN61000-4-2 (15kV air, 8kV contact)	4
	Radiated RFI	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







Vox Power Ltd.
Unit 2 Red Cow Interchange Estate
Ballymount
Dublin 24, Ireland

Tel: +353 1 459 1161, Fax: +353 1 633 5511

Web: ww.vox-power.com

Distributed By: 上海佳舍

上海佳舍珀电子科技有限公司

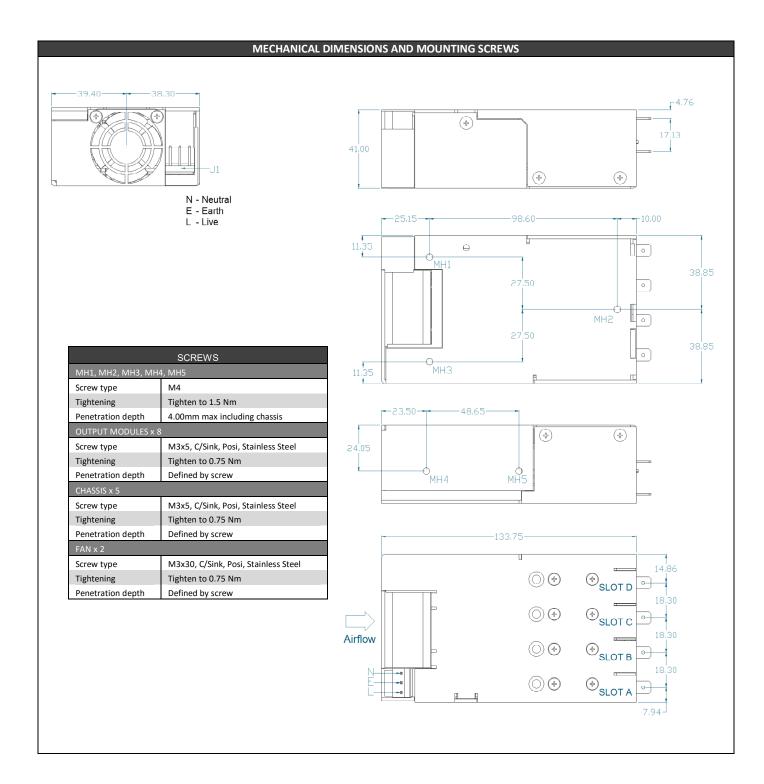
电话: 021-61999334·13764303579

传真: 021-33250334



NEVO+600 SERIES





Vox Power Ltd. Unit 2 Red Cow Interchange Estate Ballymount Dublin 24, Ireland

Tel: +353 1 459 1161, Fax: +353 1 633 5511

Web: ww.vox-power.com

Distributed By:

上海佳舍珀电子科技有限公司

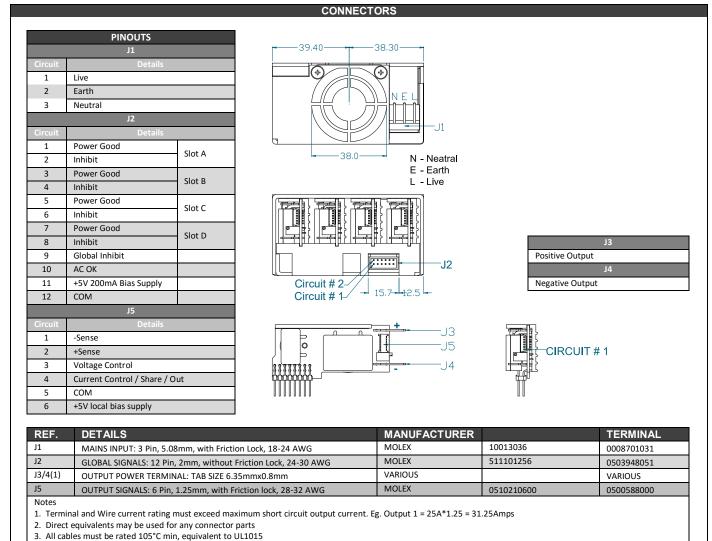
电话: 021-61999334·13764303579

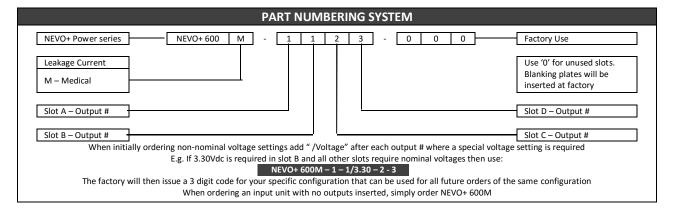
传真: 021-33250334



NEVO600+ SERIES







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 06

Vox Power Ltd. Unit 2 Red Cow Interchange Estate Ballymount Dublin 24, Ireland

Tel: +353 1 459 1161, Fax: +353 1 633 5511

Web: ww.vox-power.com

Distributed By: 上海佳舍珀电子科技有限公司

电话: 021-61999334·13764303579

传真: 021-33250334