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Find the *Vox Power NEVO+600M* at our website: *Click HERE*

NEVO+600M

MEDICAL AC/DC MODULAR CONFIGURABLE POWER SUPPLY

DATA SHEET



5”x3”x1.61”
Small

600W
Powerful

600g
Light

The NEVO+600M modular configurable medical power supply is the smallest in its class and the ultimate solution for demanding medical applications where size, power density and weight matter. Its tiny footprint of 5” x 3” x 1.61” weighs only 600 grams and delivers an incredible 600 Watts - equating to a power density of 25 Watts per cubic inch.

The input module can accommodate up to four isolated output modules which can be configured into a high power 5”x 3” single output power supply or a multiple output power supply with up to 8 isolated outputs.

Standard features include intelligent fan control providing optimised airflow for various load and temperature conditions, wide output voltage adjust, parallel and series connection of modules and an isolated 5V 200mA bias supply. A low noise fan option is available that you to use this innovative power supply in even the quietest of environments.

The series is approved to latest medical standards and features market leading specifications and design in application support.

MAIN FEATURES

- 600 Watts in 3" x 5" x 1.61”
- User and field configurable
- Wide output voltage adjust range
- Remote current / voltage programming
- Efficiency up to 89%
- Intelligent fan control
- Parallel and series connection of modules
- Standard 5V 200mA bias supply
- Accurate current sharing
- Up to 8 isolated outputs
- Low noise option (ML Version)
- UL60601 Ed. 3 (Immunity to Ed. 4)
- 3 Year warranty

Vox Power Limited | Unit 2, Red Cow Interchange Estate, Ballymount, Dublin 22, D22 Y8H2, Ireland | T +353 1 4591161 | www.vox-power.com

SPECIFICATIONS

INPUT ELECTRICAL

	Parameter	Details	Min	Typ	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 input voltage	Medical	120		300	Vdc
	Power rating	See graphs for deratings			600	Watts
	Input current	600Watts output at 120Vrms input			6	Amps
	Inrush current	265Vrms (cold start)			20	Amps
	Fusing	5x20 Fast acting			8	Amps
	Input current limit	Maintains power factor		8		Amps
	Efficiency	See graphs		86	89	%
	Idle power	All outputs fitted and enabled		28		Watts
	Idle power	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 temperature	Internally monitored. Latching	115		125	°C
	Reliability	40°C 80% load			2	FPMH
SIGNALS	Bias voltage		4.8	5	5.2	V
SIGNALS	Bias current		0		200	mA
SIGNALS	Power good voltage	PNP open collector with internal 10k pull down resistor	8	10	15	V
SIGNALS	Power good current		0		20	mA
SIGNALS	Inhibit voltage		2		15	V
SIGNALS	Inhibit current	10k ohm input impedance	0.2		1.5	mA
SIGNALS	Global inhibit voltage		3		15	V
SIGNALS	Global inhibit current	5k ohm input impedance	0.6		3	mA
SIGNALS	AC_OK voltage		1		4	V
SIGNALS	AC_OK current		-10		20	mA
SIGNALS	AC_OK warning	See user manual for exceptions	5			mS

INSTALLATION

Parameter	Details	Parameter	Details
Equipment class	I	Flammability rating	94V-2
Installation category	II	IP rating	IP10
Pollution degree	2	ROHS compliance	2011/65/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			3	Years

SAFETY

Parameter	Details	Min	Max	Units
Isolation voltage	Input to output		4000	Vac
	Input to chassis		1500	Vac
	Output to chassis		250	Vdc
	Output to output		250	Vdc
Isolation clearance	Primary to secondary (reinforced)	7		mm
	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)

ENVIRONMENTAL

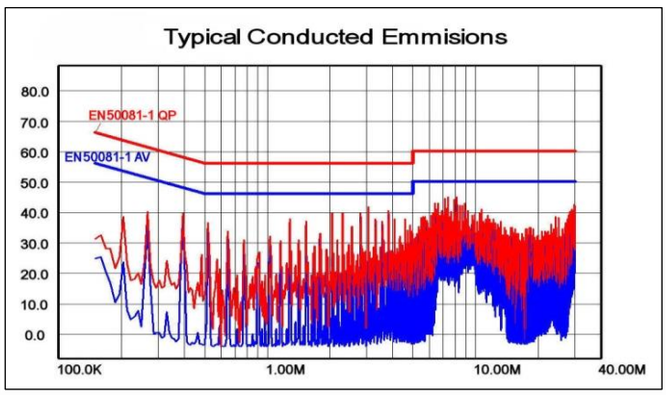
	Parameter	Details	Min	Max	Units
Storage	Temperature		-40	+85	°C
Storage	Humidity	Relative, non-condensing	5	95	%
Storage	Altitude		-200	5000	m
Storage	Air Pressure		54	106	kPa
Operation	Temperature	Full power	-20	50	°C
Operation		Derate input and outputs at 2.5%/°C	50	70	°C
Operation	Humidity	Relative,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

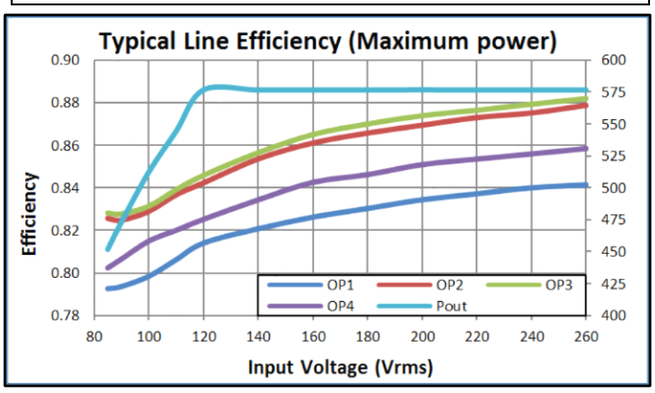
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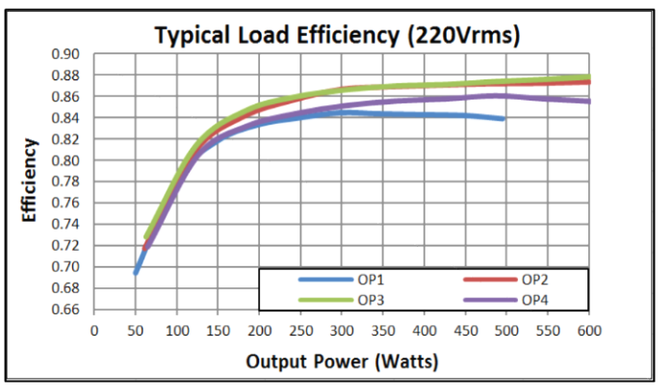
EMC			
	Parameter	Standard	Level
Emissions	Radiated electric field	EN55011, EN55022, FCC	B
	Conducted emissions	EN55011, EN55022, FCC	B
	Harmonic distortion	EN61000-3-2	Compliant
	Flicker & fluctuation	EN61000-3-3	Compliant
Immunity	Electrostatic discharge	EN61000-4-2 (15kV air, 8kV contact)	4
	Radiated RFI	EN61000-4-3 (10V/m)	3
	Fast transient burst	EN61000-4-4 (2kV)	3
	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

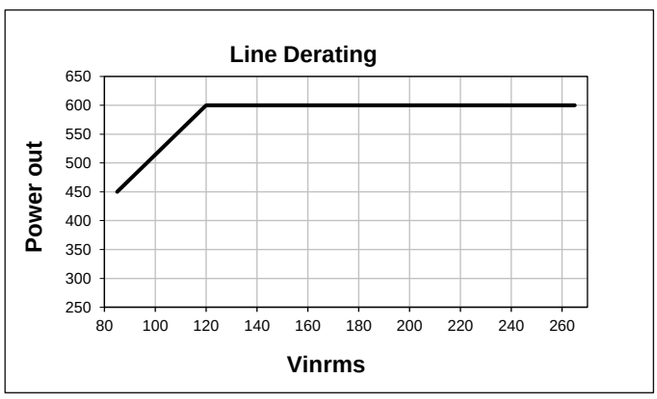
AGENCY APPROVALS		
Standard	Details	File
UL60601-1	UL60601-1: 2006	UL: E316486
IEC/EN60601-1	IEC 60601-1: 1998 + A1: 1991 + A2: 1995	
CAN/CSA-C22.2 No. 60601-1	CAN/CSA-C22.2 No. 60601-1 (2008)	
ANSI/AAMI ES60601-1	ANSI/AAMI ES60601-1 (2005 + C1:09 + A2:10)	
CE MARK	LVD 2014/35/EU	

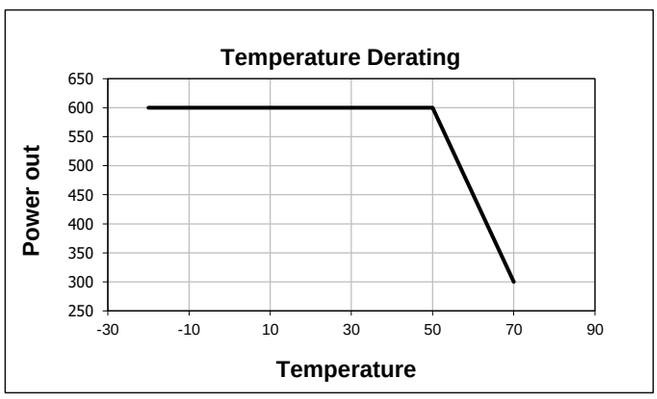
CB certificate and report available on request



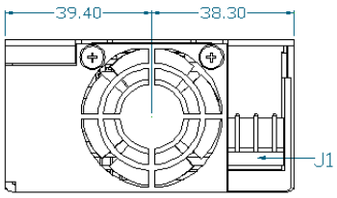




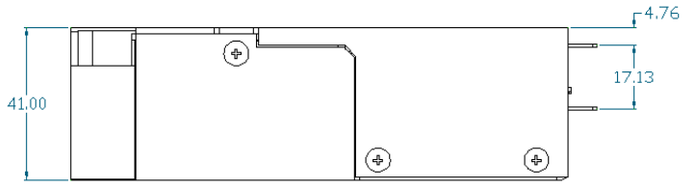


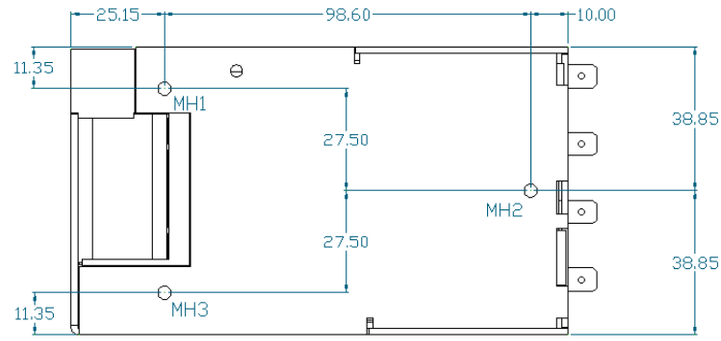


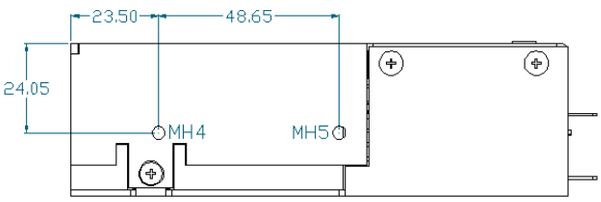
MECHANICAL DIMENSIONS AND MOUNTING SCREWS

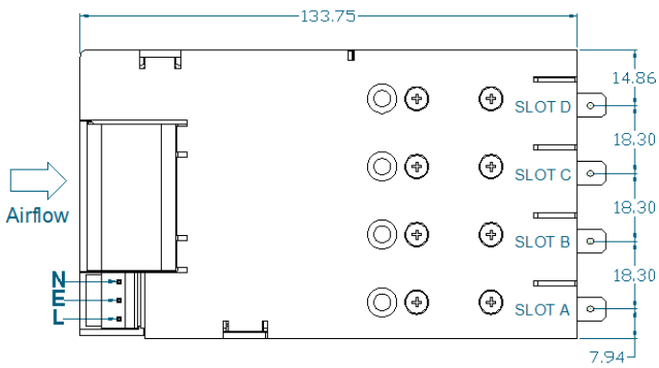


N - Neutral
E - Earth
L - Live









SCREWS	
MH1, MH2, MH3, MH4, MH5	
Screw type	M4
Tightening	Tighten to 0.55 Nm [1]
Penetration depth	4.00mm max including chassis
OUTPUT MODULES x 8	
Screw type	M3x5, C/Sink, Posi, Stainless Steel
Tightening	Tighten to 0.50 Nm [1]
Penetration depth	Defined by screw
CHASSIS x 5	
Screw type	M3x5, C/Sink, Posi, Stainless Steel
Tightening	Tighten to 0.50 Nm [1]
Penetration depth	Defined by screw
FAN x 2	
Screw type	M3x30, C/Sink, Posi, Stainless Steel
Tightening	Tighten to 0.50 Nm [1]
Penetration depth	Defined by screw

1. Torque settings are for general reference only. The torque settings shown in the datasheet are the insert manufacturers recommended values.

CONNECTORS

PINOUTS

J1

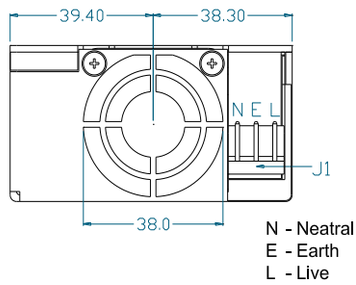
Circuit	Details
1	Live
2	Earth
3	Neutral

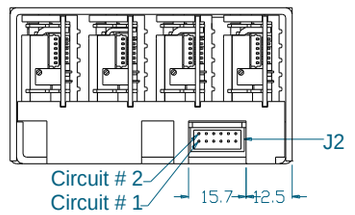
J2

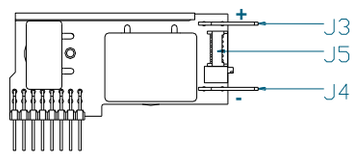
Circuit	Details	
1	Power good	Slot A
2	Inhibit	
3	Power good	Slot B
4	Inhibit	
5	Power good	Slot C
6	Inhibit	
7	Power good	Slot D
8	Inhibit	
9	Global inhibit	
10	AC OK	
11	+5V 200mA bias supply	
12	COM	

J5[4]

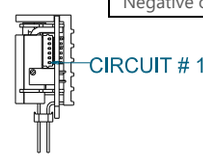
Circuit	Details
1	-Sense
2	+Sense
3	Voltage control
4	Current control / share / out
5	COM
6	+5V local bias supply







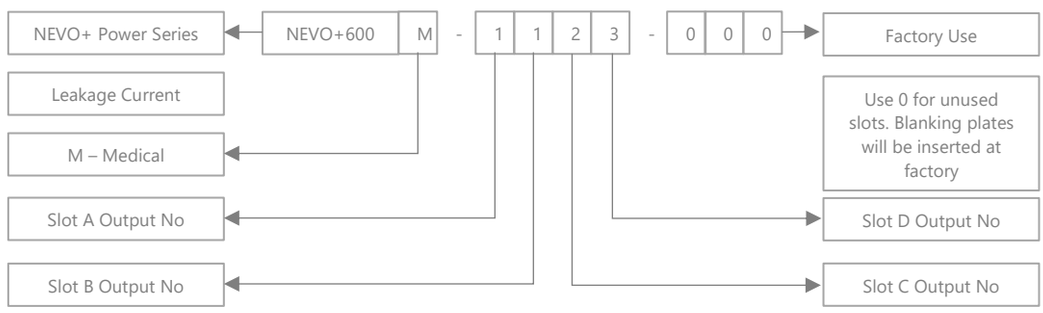
J3
Positive output
J4
Negative output



REF.	DETAILS	MANUFACTURER		TERMINAL
J1	MAINS INPUT: 3 Pin, 5.08mm, with Friction Lock, 18-24 AWG	MOLEX	10013036	0008701031
J2	GLOBAL SIGNALS: 12 Pin, 2mm, with Friction Lock, 24-30 AWG	MOLEX	511101251	0503948051
J3/4(1)	OUTPUT POWER TERMINAL: TAB SIZE 6.35mmx0.8mm	VARIOUS		VARIOUS
J5	OUTPUT SIGNALS: 6 Pin, 1.25mm, with Friction lock, 28-32 AWG	MOLEX	0510210600	0500588000

Notes
1. Terminal and Wire current rating must exceed maximum short circuit output current. Eg. Output 1 = 25A*1.25 = 31.25Amps
2. Direct equivalents may be used for any connector parts
3. All cables must be rated 105°C min, equivalent to UL1015
4. Pinout is for single output types only

PART NUMBERING SYSTEM



Our design team will assist with value add requirement if an application requires standard/non-standard accessories or non-nominal voltage settings.
Once approved, the factory will issue a 3 or 4 digit code for your specific configuration which can be used for all future orders of the same configuration.
When ordering an input unit with no outputs inserted, simply order NEVO+600M

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