NEVO+600S INDUSTRIAL DATA SHEET

AC/DC Modular Configurable PSU





600W Powerful 5" x 3" x 1.61" Small 600g Light

600 Watts in the palm of your hand

Our innovative NEVO+600S modular configurable power supply is the smallest in its class and the ultimate power solution for demanding industrial applications where size, power density and weight are vital factors. Weighing only 600 grams, the compact package of 5" x 3" x 1.61" delivers up to 600 Watts - equating to a power density of 25 Watts per cubic inch. 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 1A bias supply. A low noise fan option is available that allows you to use this innovative power supply in even the quietest of environments.

MAIN FEATURES

- 600 Watts output power
- Power density of (25W/in³)
- Smallest modular footprint
- 5" x 3" x 1.61"
- Wide output voltage adjust range

APPLICATIONS

- Test & Measurement equipment
- Robotics
- Oil & Gas
- Telecommunications

ISTOMER BENEFITS

- Fast time to market
- 24 hrs samples from distribution
- Safety & EMC certified
- World class engineering support

- Constant current or voltage operation
- Parallel & series connection of modules Series Tracker and I2C options
- Intelligent fan control
- IEC60950 Ed. 2 & IEC62368-1 Ed. 2
- User and field configurable
- Low noise option (SL version)
- 3 Year warranty
- Laboratory & Analysis equipment
- Display
- Avionics

- LED lighting
 - Retrofit of legacy PSUs Lasers
- Proven technology

Field replaceable

- Eliminates custom design costs
- Technology consolidation Supplier consolidation
- Vox Power Limited | Unit 2, Red Cow Interchange Estate, Ballymount, Dublin 22, D22 Y8H2, Ireland | T +353 1 4591161 | www.vox-power.com Page 1 of 5

DOC-DTS-001-08, NEVO+600S Industrial Datasheet



SPECIFICATIONS

INPUT MODULE SPECIFICATIONS							
Parameter	Details	Min	Typical	Max	Units		
AC Input Voltage	Nominal range is 100V _{RMS} to 240V _{RMS}	85		264	V _{RMS}		
AC Input Frequency	Contact factory for 400Hz operation.	47	50/60	63	Hz		
DC Input Voltage	Not covered by safety approvals. Contact Vox Power.	120		370	V _{DC}		
Output Power Rating	De-rate linearly from 600Watts at 120V $_{\text{RMS}}$ to 450Watts at 85V $_{\text{RMS}}$			600	Watts		
Input Current	600Watts output at 120 V _{RMS} input			6	Amps		
Input Current Limit	Maintains power factor		8		Amps		
Inrush Current	265V _{RMS} , 25°C (cold start)			20	Amps		
Fusing	Live line fused (5x20 Fast acting)			8	Amps		
Efficiency	See graphs		86	89	%		
No load Power consumption	All outputs fitted and disabled/enabled		21/28		Watts		
Power Factor	Typical value for 300 Watts output at 240Vrms input		0.96	0.99			
Holdup	600Watts output at 120V _{RMS} input	17	20	21	mS		
UVP	Turn on under voltage protection	78		84	V _{RMS}		
Over temperature	Internally monitored.	115		125	°C		
Reliability (1)	Input module			1.207	FPMH		
	Fan			2.7	FPMH		
Warranty	Standard terms and conditions apply			3	Years		
Size	133.7 (L) x 77.7 (W) x 41.0 (H). See diagram for tolerance details			-	mm		
Weight	360 + 60 per output module				Grams		
Note 1.	30°C base & ambient, 100% load, SR332 Issue 2 Method I, Case 3, Ground, Fixed, Co	ontrolled			•		

GLOBAL SIGNALS SPECIFICATIONS							
Parameter	Details	Min	Typical	Max	Units		
Bias Voltage		4.8	5	5.2	Volts		
Bias Current				1	Amps		
AC_OK Voltage	Low output level/High output level	0/4.8	0.2/5	1/5.2	Volts		
AC_OK Current		-10		20	mA		
Power Good Voltage	PNP open collector with internal $10k\Omega$ pull down. Low output level/High output level	0/8	0/10	0/15	Volts		
Power Good Current	Open collector output. Current source only. All Slots.			20	mA		
Global Inhibit Voltage	Low input level/High input level.	0/3		1/15	Volts		
Global Inhibit Current	5k input impedance.	0.6		3	mA		
Inhibit Voltage	Low input level/High input level. All slots.	0/2.5		1/15	Volts		
Inhibit Current	10k input impedance. All slots.	0.25		1.5	mA		

OUTPUT MODULE SPECIFICATION SUMMARY												
MODEL Output V		Output Volta	age	Output	Rated	Peak	Load	Line	Cross	Ripple &	FPMH ⁽¹⁾	Feature
WODLL	Min.	Nom.	Max.	Current	Power	Power	Reg.	Reg.	Reg.	Noise		Set ⁽²⁾
OP1	1.5V	5V	7.5V	25A	125W	187.5W	±50mV	±5mV	±10mV	50mV _{PP}	0.5	ABCDEFG
OP2	4.5V	12V	15V	15A	150W	225W	±100mV	±12mV	±24mV	120mV _{PP}	0.5	ABCDEFG
OP3	9V	24V	30V	7.5A	150W	225W	±150mV	±24mV	±48mV	240mV _{PP}	0.5	ABCDEFG
OP4	18V	48V	58V	3.75A	150W	217.5W	±300mV	±48mV	±96mV	480mV _{PP}	0.5	ABCDEFG
OP5	3.3V	12V	15V	5A	2x 75W	2x 75W	±50mV	±12mV	±24mV	240mV _{PP}	0.75	AFG
OP8	23.2V	24V	24.7V	3.125A	2x 75W	2x 75W	±100mV	±24mV	±48mV	480mV _{PP}	0.75	AFG
OPA2 ⁽³⁾	4.5V	12V	15V	25A	300W	375W	±100mV	±12mV	±24mV	120mV _{PP}	0.5	ABCDEFGH
OPA3(3)	9V	24V	30V	15A	300W	450W	±150mV	±24mV	±48mV	240mV _{PP}	0.5	ABCDEFGH
Note 1.	Output r	nodule, 30°	°C base, 10	0% load, SR332	issue 2 Metho	d I, Case 3, Gro	und, Fixed, Co	ontrolled				
Note 2.	A = Rem	ote Sense, l	B = Extern	al Voltage contro	ol, C = External	constant curre	ent control, D	= Current ou	utput signal, E	= Current share,	F = Over Voltag	je protection,
G = Over temperature protection, H = Dual Slot module												
Note 3.	Can only	be used wi	ith NEVO+	600 chassis with	date codes fro	om 2048 onwa	rds. eg. 2048	C080000 can	use A2 or A3	module, 2047C0	89999 cannot ι	use A2 or A3

Note 3. Can only be used with NEVO+600 chassis with date codes from 2048 onwards. eg. 2048C080000 can use A2 or A3 module, 2047C089999 cannot use A2 or A3 module.

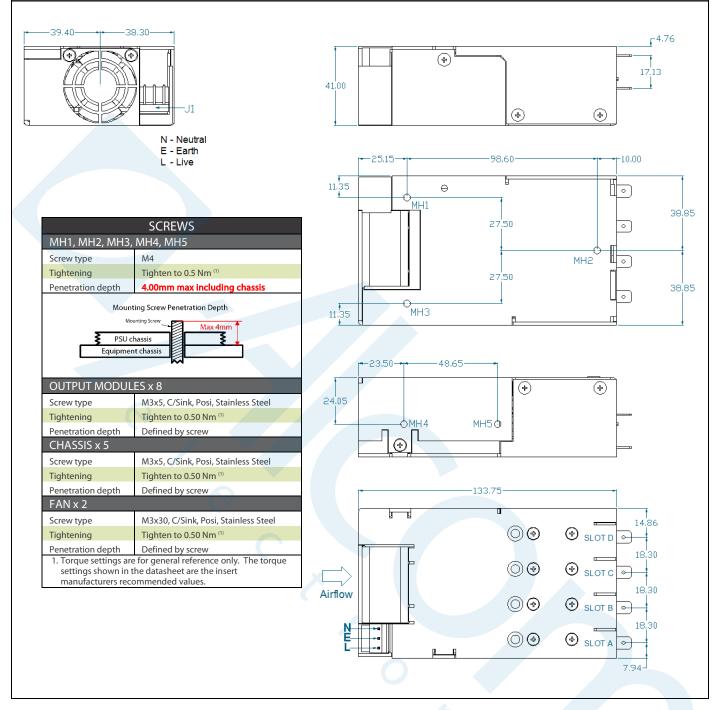
SAFETY SPECIFICATIONS						
Parameter	Details	Max	Units			
	Input to Output (2 MOPP). Do not perform test on assembled unit ⁽¹⁾	4000	V _{AC}			
Isolation Voltages	Input to Chassis (1 MOPP)	1500	V _{AC}			
	Global signals (J2) to Output/Chassis	250	V _{DC}			
	Output to Output/Chassis (Standard modules)	250	V _{DC}			
Earth Leakage Current	Normal condition, 264Vac, 63Hz, 25°C	1500	uA			
Touch Leakage Current	Standard modules NC/SFC	20/200	uA			
Patient Leakage Current	Standard modules 264Vac, 63Hz, 25°C NC/SFC ⁽²⁾		uA			
Note 1. Testing an assembled unit	to 4000V _{AC} may cause damage. Please refer to application note (APN-002) on Vox Power website or contact Vo	x Power repres	sentative.			
Note 2. Not Applicable						

INSTALLATION SPECIFICATIONS								
Parameter	Details	Parameter	Details					
Equipment class	1	Flammability Rating	94V-2					
Overvoltage category	II	Ingress protection rating	IP10					
Material Group	IIIb (indoor use only)	ROHS compliance	2011/65/EU					
Pollution degree	2	Intended usage environment	Industrial Equipment					

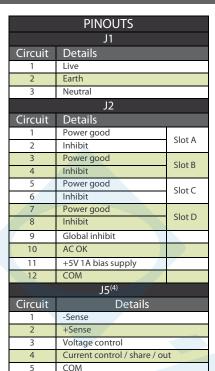
				<u>A IIUNS_</u>					
					Non-Operational Operatio				
Parameter	Details				Max	Min	Max	- Units	
Air Temperature	Operational limits subject to ap	propriate de-ratings		Min -40	+85	-20	70	°C	
lumidity	Relative, non-condensing	-		5	95	5	95	%	
Altitude Air Pressure				-200 52	5000 106	-200 52	5000 ⁽¹⁾ 106	m kPa	
loise Level	Variable. Measured 1m from far	intake.		- 52	-	36	60	dBA	
hock	3000 bumps at 10G (16ms) half s				- 1 - 1		1		
'ibration	1.5G 10 to 200Hz sine wave, 200								
lotes: 1. /	Additional power derating may be	, ,				specificatio	n.		
		ELECTROMAGNETIC C	COMPLIANCE	E – EMISS	IONS				
henomenon		Basic EMC Standa	rd	Т	est Details				
adiated emissions,	, electric field	EN55011/22, FCC		C	lass B compliant				
onducted emission		EN55011/22, FCC part 1	15, CISPR 22/11		lass B compliant				
armonic Distortior licker & Fluctuatior		IEC61000-3-2 IEC61000-3-3			ompliant ompliant				
ICKEI & Fluctuation		ELECTROMAGNETIC (_	_		
henomenon		Basic EMC Standa	rd Tes	st Details					
ectrostatic dischar		IEC61000-4-2			/ air, 8kV contact)			
adiated RF EM field	ds n RF wireless communications	IEC61000-4-3 IEC61000-4-3		•	//m, 80MHz-2.7GH	,	e AM 80% 1kH:	Z	
oximity fields from	in manufications	IEC01000-4-3	Test	t levels as per	IEC60601-1-2:201	4 Table 9			
ectrical Fast Transi	ients/bursts	IEC61000-4-4	Test	t Level 3: (2k\	/ Power, 1kV I/O) 5	kHz(ed3) &	100kHz(ed4)		
irges		IEC61000-4-5	Test	t Level 3: 1kV	L-N, 2kV L-E				
	ances induced by RF fields	IEC61000-4-6			, 0.15 to 80Mhz sin	e wave AM	80% 1kHz		
ower Frequency M oltage Dips & Sag I	3	IEC61000-4-8 IEC61000-4-11& SEMI-F		t level 4: 30A/	'm 50Hz ms, 80% 1s, 80% 1()s 90% com	tinuous (Critor	ion A)	
stage Dips & sag I	ininidinity	12C01000-4-11& 521VII-F			2s (Criterion A at 2	,		,	
oltage interruption	ns	IEC61000-4-11			e as per IEC60601-			,	
otes: 1. Cr	riterion A = No degradation of perf	ormance or loss of function.		· ·					
	riterion B = Temporary degradation					overable.			
	riterion C = Temporary loss of func ested at nominal range (100V to 24			on to recover.					
2. 16	ested at nonlina range (1007 to 24								
		AGENCY	APPROVALS	5					
andard	D	etails					File		
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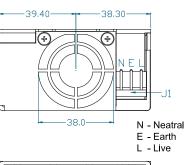
Page 3 of 5 Vox Power Limited | Unit 2, Red Cow Interchange Estate, Ballymount, Dublin 22, D22 Y8H2, Ireland | T +353 1 4591161 | www.vox-power.com DOC-DTS-001-08, NEVO+600S Industrial Datasheet

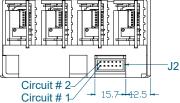
MECHANICAL DIMENSIONS AND MOUNTING SCREWS

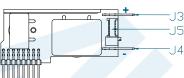


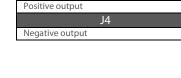
CONNECTORS











CIRCUIT # 1

+5V 10mA local bias supply		Ш	
DETAILS	MANUFACTURER	HOUSING	TERMINAL
MAINS INPUT: 3 Pin, 5.08mm, with Friction Lock, 18-24 AWG	MOLEX	10013036	0008701031
GLOBAL SIGNALS: 12 Pin, 2mm, without Friction Lock, 24-30 AWG	MOLEX	511101251	0503948051
OUTPUT POWER TERMINAL: TAB SIZE 6.35mmx0.8mm	VARIOUS		VARIOUS
OUTPUT SIGNALS: 6 Pin, 1.25mm, with Friction lock, 28-32 AWG	MOLEX	0510210600	0500588000

J3/4 J5 Notes

6

REF. J1

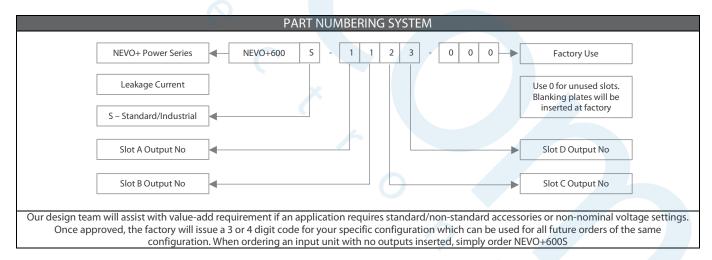
J2

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



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