# NEVO+600S INDUSTRIAL DATA SHEFT

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/in<sup>3</sup>)
- Smallest modular footprint
- 5" x 3" x 1.61"
- Wide output voltage adjust range

#### 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

Laboratory & Analysis equipment

- User and field configurable
- Low noise option (SL version)
- 3 Year warranty

• LED lighting

Lasers

#### **APPLICATIONS**

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

## JSTOMER BENEFITS

- Fast time to market
- 24 hrs samples from distribution
- Proven technology Eliminates custom design costs

 Display Avionics

- Field replaceable
- Technology consolidation
- Supplier consolidation

Retrofit of legacy PSUs

- Safety & EMC certified
- World class engineering support

### **SPECIFICATIONS**

	INPUT MODULE SPECIFICATIONS				
Parameter	Details	Min	Typical	Max	Units
AC Input Voltage	Nominal range is 100V <sub>RMS</sub> to 240V <sub>RMS</sub>	85		264	V <sub>RMS</sub>
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 <sub>DC</sub>
Output Power Rating	De-rate linearly from 600Watts at 120V <sub>RMS</sub> to 450Watts at 85V <sub>RMS</sub>			600	Watts
Input Current	600Watts output at 120 V <sub>RMS</sub> input			6	Amps
Input Current Limit	Maintains power factor		8		Amps
Inrush Current	265V <sub>RMS</sub> , 25℃ (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 <sub>RMS</sub> input	17	20	21	mS
UVP	Turn on under voltage protection	78		84	V <sub>RMS</sub>
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, Con	trolled			

	GLOBAL SIGNALS SPECIFICATIONS				
Parameter	Details	Min	Typical	Max	Units
Bias Voltage	Two isolated Bias Outputs available	4.8	5	5.2	Volts
Bias Current	Hiccup type current limit	0		1	Amps
AC OK Voltage	Low output level	0	0.2	1	Volts
Ac_on voltage	High output level	3.5	4.5	5.2	VOIUS
AC_OK Current		-10		20	mA
Power Good Voltage	Low output level. internal $10k\Omega$ pull down.	0	0	0	Volts
5	High output level. PNP open collector.	8	10	15	VOIUS
Power Good Current	Open collector output. Current source only. All Slots.			20	mA
Global Inhibit Voltage	Low input level	0		1	Volts
5	High input level	3		15	VOIUS
Global Inhibit Current	5k input impedance.	0.6		3	mA
Inhibit Voltage	Low input level. All slots.	0		1	Volts
Infinibit voltage	High input level. All slots.	2.5		15	VOIUS
Inhibit Current	10k input impedance. All slots.	0.25		1.5	mA

	OUTPUT MODULE SPECIFICATION SUMMARY											
MODEL	Out	put Volta	age	Output	Rated	Peak	Load	Line	Cross	Ripple &	FPMH <sup>(1)</sup>	Feature
MODEL	Min.	Nom.	Max.	Current	Power	Power	Reg.	Reg.	Reg.	Noise	1110111	Set <sup>(2)</sup>
OP1	1.5V	5V	7.5V	25A	125W	187.5W	±50mV	±5mV	±10mV	50mV <sub>PP</sub>	0.5	ABCDEFG
OP2	4.5V	12V	15V	15A	150W	225W	±100mV	±12mV	±24mV	120mV <sub>PP</sub>	0.5	ABCDEFG
OP3	9V	24V	30V	7.5A	150W	225W	±150mV	±24mV	±48mV	$240 mV_{PP}$	0.5	ABCDEFG
OP4	18V	48V	58V	3.75A	150W	217.5W	±300mV	±48mV	±96mV	480mV <sub>PP</sub>	0.5	ABCDEFG
OP5	3.3V	12V	15V	5A	2x 75W	2x 75W	±50mV	±12mV	±24mV	$240 mV_{PP}$	0.75	AFG
OP8	23.2V	24V	24.7V	3.125A	2x 75W	2x 75W	±100mV	±24mV	±48mV	480mV <sub>PP</sub>	0.75	AFG
OPA2 <sup>(3)</sup>	4.5V	12V	15V	25A	300W	375W	±100mV	±12mV	±24mV	120mV <sub>PP</sub>	0.5	ABCDEFGH
OPA3 <sup>(3)</sup>	9V	24V	30V	15A	300W	450W	±150mV	±24mV	±48mV	240mV <sub>PP</sub>	0.5	ABCDEFGH
Note 1.	Output r	nodule, 30	°C base, 10	00% load, SR332	issue 2 Metho	d I, Case 3, Gro	und, Fixed, Co	ontrolled				
Note 2.	A = Rem	ote Sense,	B = Externa	al Voltage contre	ol, C = External	constant curre	ent control, D	= Current ou	itput signal, E	= Current share,	F = Over Voltag	e protection,
	G = Over	r temperatu	ire protect	tion, $H = Dual Slo$	ot module							

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 <sup>(1)</sup>	4000	V <sub>AC</sub>
Isolation Voltages	Input to Chassis (1 MOPP)	1500	V <sub>AC</sub>
	Global signals (J2) to Output/Chassis	250	V <sub>DC</sub>
	Output to Output/Chassis (Standard modules)	250	V <sub>DC</sub>
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 <sup>(2)</sup>		uA
Note 1. Testing an assembled uni	it to 4000V <sub>AC</sub> may cause damage. Please refer to application note (APN-002) on Vox Power website or contact	Vox Power repres	sentative.
Note 2. Not Applicable			

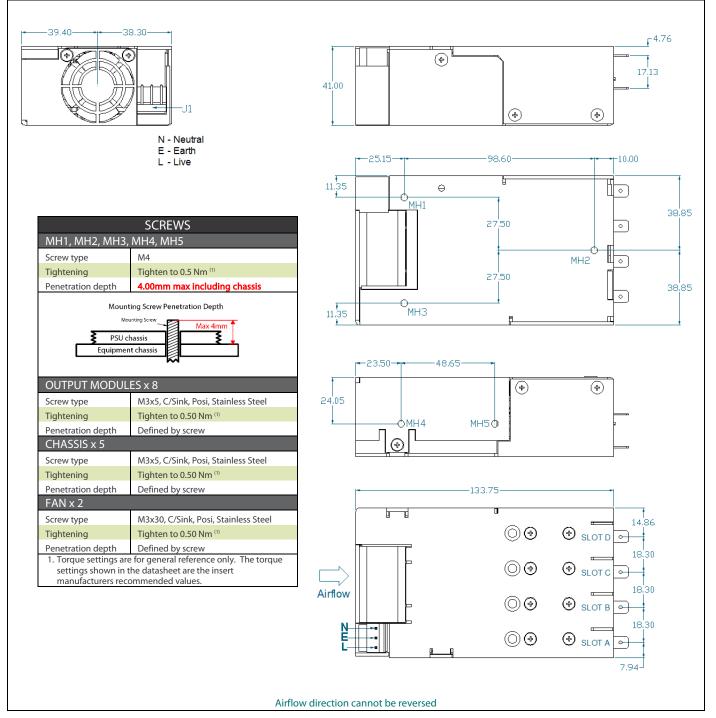
INSTALLATION SPECIFICATIONS Parameter Details Parameter Details Flammability Rating Ingress protection rating ROHS compliance Equipment class 94V-2 I Overvoltage category Material Group IP10 Ш 2011/65/EU & 2015/863/EU IIIb (indoor use only) Pollution degree Intended usage environment Industrial Equipment 2

Page 2 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

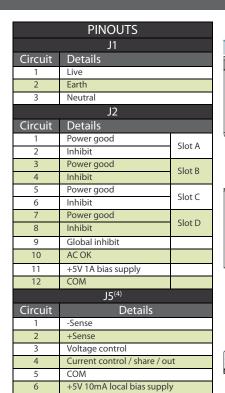
		ENVIRONMEN	TAL SPECIFICA	tions				
					perational	Oper	ational	
Parameter	Details			Min	Max	Min	Max	- Units
Air Temperature	Operational limits subject to	appropriate de-ratings		-40	+85	-20	70	°C
Humidity	Relative, non-condensing			5	95	5	95 5000 <sup>(1)</sup>	%
Altitude Air Pressure				-200 52	5000 106	-200 52	5000 <sup>(1)</sup>	m kPa
loise Level	Variable. Measured 1m from	fan intake.		-	-	36	62	dBA
hock	3000 bumps at 10G (16ms) ha	alf sine wave		1	1		1 -	
'ibration		20G for 15min in 3 axes random v						
lotes: 1. /	Additional power derating may	be necessary at high altitudes to	· · ·			specification	n.	_
		ELECTROMAGNETIC	COMPLIANCE	– EMISSIC	NS			
henomenon		Basic EMC Standa	ird	Tes	st Details			
adiated emissions,		EN55011/22, FCC			s B compliant			
onducted emission armonic Distortior		EN55011/22, FCC part IEC61000-3-2	15, CISPR 22/11		s B compliant			
icker & Fluctuation		IEC61000-3-3			npliant			
		ELECTROMAGNETIC						
henomenen		Basic EMC Standa		Details				
nenomenon ectrostatic dischar		IEC61000-4-2			ir, 8kV contact			
diated RF EM field	0	IEC61000-4-2			n, 80MHz-2.7GF	lz) sine wave	e AM 80% 1kH	Ζ
oximity fields from	n RF wireless communications	IEC61000-4-3			C60601-1-2:201			
uipment	ionto/huvoto						1001/17(14)	
ectrical Fast Transi Irges	ients/dursts	IEC61000-4-4 IEC61000-4-5		_evel 3: (2kV F _evel 3: 1kV L-	ower, 1kV I/O) 5	кпz(еаз) &	TUUKHZ(ed4)	
0	inces induced by RF fields	IEC61000-4-6			.15 to 80Mhz sir	ne wave AM	80% 1kHz	
wer Frequency M		IEC61000-4-8	Test	evel 4: 30A/m	50Hz			
ltage Dips & Sag I	Immunity	IEC61000-4-11& SEMI-			s, 80% 1s, 80% 1			
Itage interruption		IEC61000-4-11		,	(Criterion A at 2 as per IEC60601-			V)
5	iterion $A = No$ degradation of p		0702.		per ilecouori	. 2.2017 (CI		
Cr	iterion B = Temporary degradat	tion of performance or loss of fu			nction is self-rec	overable.		
		nction is allowed but requires of 240V). Line deratings applied w		to recover.				
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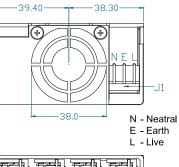
Page 3 of 5 Vox Power Limited | Unit 2, Red Cow Interchange Estate, Ballymount, Dublin 22, D22 Y8H2, Ireland | T +353 1 4591161 | www.vox-power.com

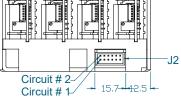
#### MECHANICAL DIMENSIONS AND MOUNTING SCREWS

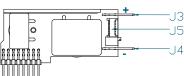


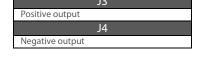
#### **CONNECTORS**

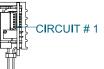












REF.	DETAILS	MANUFACTURER	HOUSING	TERMINAL
J1	MAINS INPUT: 3 Pin, 5.08mm, with Friction Lock, 18-24 AWG	MOLEX	10013036	0008701031
J2	GLOBAL SIGNALS: 12 Pin, 2mm, without Friction Lock, 24-30 AWG	MOLEX	511101251	0503948051
J3/4 <sup>(1)</sup>	OUTPUT POWER TERMINAL: TAB SIZE 6.35mmx0.8mm	VARIOUS		VARIOUS
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 NU	MBERING	SYSTE	N			
NEVO+ Powe	r Series - NF	EVO+600 S -	1 1	2 3	- 0 0	0	Factory Use	
Leakage Cu	rrent						Use 0 for unused slots. Blanking plates will be	
S – Standard/I	ndustrial						inserted at factory	
Slot A Outp	ut No					>[	Slot D Output No	
Slot B Outp	ut No					▶[	Slot C Output No	
Our design team will assist with Once approved, the facto		digit code for you	ir specific co	nfigurati	on which ca	n be used	for all future orders of the	

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