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/in³)
- 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

- Safety & EMC certified
- World class engineering support
- Supplier consolidation

Retrofit of legacy PSUs

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

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 _{RMS} to 450Watts at 85V _{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℃ (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, 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		
_ 5	High output level	3.5	4.5	5.2	VOIUS		
AC_OK Current		-10		20	mA		
Power Good Voltage	Low output level. internal 10kΩ pull down.	0	0	0	Volts		
rower dood voltage	High output level. PNP open collector.	8	10	15	VOILS		
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	VOICS		
Global Inhibit Current	5k input impedance.	0.6		3	mA		
Inhibit Voltage	Low input level. All slots.	0		1	Volts		
inition vonage	High input level. All slots.	2.5		15	VOILS		
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 ⁽¹⁾	Feature
MODEL	Min.	Nom.	Max.	Current	Power	Power	Reg.	Reg.	Reg.	Noise	1110111	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	$240 mV_{PP}$	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	$240 mV_{PP}$	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.	Note 1. Output module, 30°C base, 100% load, SR332 issue 2 Method I, Case 3, Ground, Fixed, Controlled											
Note 2.	Note 2. A = Remote Sense, B = External Voltage control, C = External constant current control, D = Current output signal, E = Current share, F = Over Voltage protection,											
	G = Over temperature protection, H = Dual Slot module											

 G = Over temperature protection, H = Dual Slot 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 ⁽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 ur	nit to 4000V _{AC} may cause damage. Please refer to application note (APN-002) on Vox Power website or c	ontact Vox Power repres	sentative.				
Note 2. Not Applicable							

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

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

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0.78 80 100 120 140 160 180 200 220 240 260 Input Voltage (Vrms) Line Derating 0.66 0 50 100 150 200 250 300 350 400 450 500 550 600 Output Power (Watts) Temperature Derating 0.66 0 50 100 150 200 250 300 350 400 450 500 550 600 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	U 0.80								
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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 ⁽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 NL	JMBERING SY	/STEM	
NEVO+ Power Series	NEVO+600 S	- 1 1 2	3 - 0 0 0	Factory Use
Leakage Current]			Use 0 for unused slots. Blanking plates will be
S – Standard/Industrial]			inserted at factory
Slot A Output No]•			Slot D Output No
Slot B Output No]		> [Slot C Output No
Our design team will assist with value-a Once approved, the factory will is configuratio		ur specific config	guration which can be used f	for all future orders of the same

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