

NEVO+600S

INDUSTRIAL AC/DC MODULAR CONFIGURABLE POWER SUPPLY

DATA SHFFT

5"x3"x1.61"

Small

600W

Powerful

600g Light

















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 200mA 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
- Industrial approvals

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

SPECIFICATIONS

		INPUT ELECTRICAL				
Parai	meter	Details	Min	Тур	Max	Units
AC input voltage		Nominal range is 100Vrms to 240Vrms	85		264	Vrms
AC inp	out frequency	Contact factory for 400Hz operation.	47	50/60	63	Hz
DC inp	out voltage	Standard	120		370	Vdc
Power	rating	See graphs for deratings			600	Watts
Input	current	600 Watts 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
Efficie	,	See graphs		86	89	%
Idle po		All outputs fitted and enabled		28		Watts
Idle po		All outputs fitted and disabled		21		Watts
	factor	Typical value for 300 Watts output at 240Vrms input		0.96	0.99	
Holdu		600Watts output at 120Vrms input	17	20	21	mS
UVLO		Turn on only	78		84	Vrms
	emperature	Internally monitored. Latching	115		125	°C
Reliab	,	40°C 80% load			2	FPMH
	Bias voltage		4.8	5	5.2	V
	Bias current		0		200	mA
S	Power good voltage	PNP open collector with internal 10k pull down resistor	8	10	15	V
_	Power good current		0		20	mA
О	Inhibit voltage		2		15	V
⊆	Inhibit current	10k ohm input impedance	0.2		1.5	mA
9	Global inhibit voltage		3		15	V
	Global inhibit current	5k ohm input impedance	0.6		3	mA
S	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	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)			

	F	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	
la alatia a Malta a a	Input to chassis		1500	Vac	
Isolation Voltage	Output to chassis		250	Vdc	
	Output to output		250	Vdc	
Isolation Clearance	Primary to secondary (reinforced)	7		mm	
isolation Clearance	Primary to chassis (basic)	2.5		mm	
Isolation Croonses	Primary to secondary (reinforced)	12		mm	
Isolation Creepage	Primary to chassis (basic)	4		mm	
Leakage Curren t	Standard: 265Vac, 63Hz, 25°C		1500	uA	

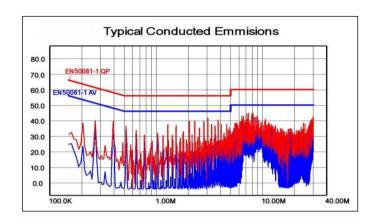
	MECHANICAL		
Parameter	Details		
Size	77.7mm x 133.7mm x 41.0mm (all external dimensions ± 1.0mm)		
Weight	360 gram + 60 gram per output module		
Mounting	Bottom or side mounting (see diagram for details)		

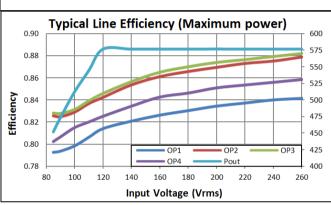
		ENVIRONMENTAL			
a g e	Parameter	Details	Min	Max	Units
	Temperature		-40	+85	°C
0 r	Humidity	Relative, non-condensing	5	95	%
t o	Altitude		-200	5000	m
S	Air pressure		54	106	kPa
	Temperature	Full power	-20	50	°C
0 ח		Derate input and outputs at 2.5%/°C	50	70	°C
	Humidity	Relative, non-condensing	5	95	%
a t	Altitude	(-200 to 2000m for UL60601-1)	-200	3000	m
e	Air pressure		78	106	kPa
Оре	Noise level	Variable. measured 1m from fan intake	36	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			

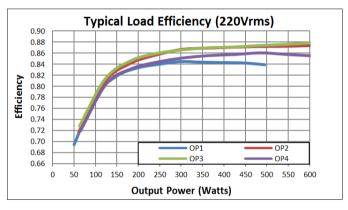
	EMC	
ш Ё : Parameter	Standard	Level

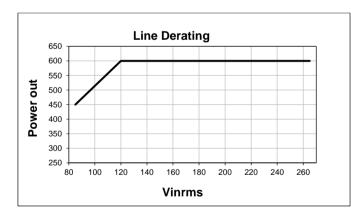
	Radiated electric field	EN55011, EN55022, FCC	В
	Conducted emissions	EN55011, EN55022, FCC	В
	Harmonic distortion	EN61000-3-2	Compliant
	Flicker & fluctuation	EN61000-3-3	Compliant
	Electrostatic discharge	EN61000-4-2	A
	Electrostatic discharge	(15kV air, 8kV contact)	4
. <u>₹</u>	Radiated RFI	EN61000-4-3 (10V/m)	3
Immunity	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

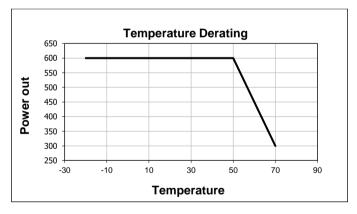
AGENCY APPROVALS				
Standard	Details	File		
UL60950-1	UL60950-1 2nd edition revised December 19, 2011	UL: E316486		
IEC/EN60950- 1	IEC 60950-1:2005 (2nd Edition); Am 1:2009			
CSA-C22.2 No. 60950-1A-07	2nd Edition			
CE MARK	LVD 2014/35/EU			
CE MARK LVD 2014/35/EU CB certificate and report available on request				
Typical Line Efficiency (Maximum power)				

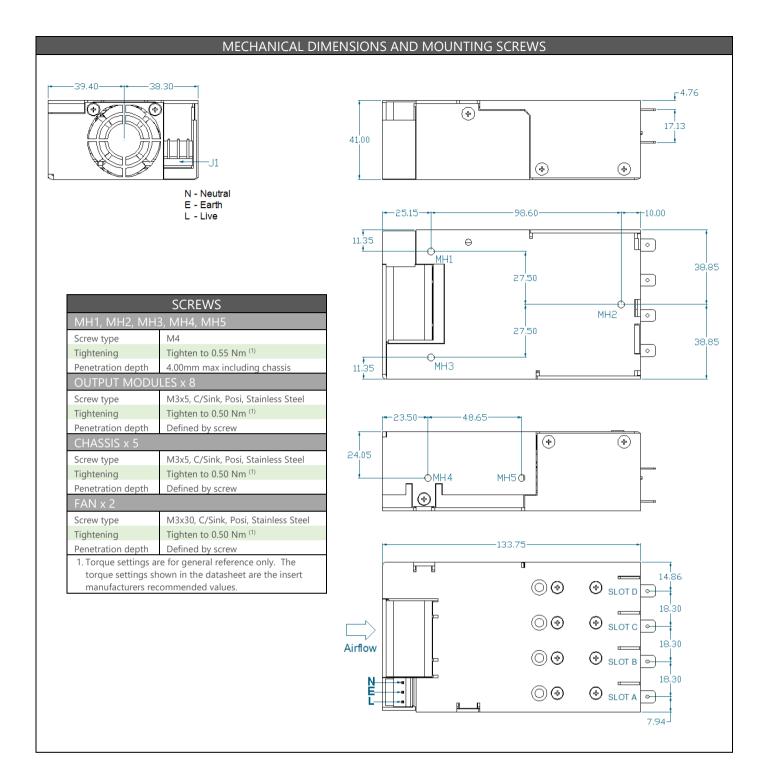


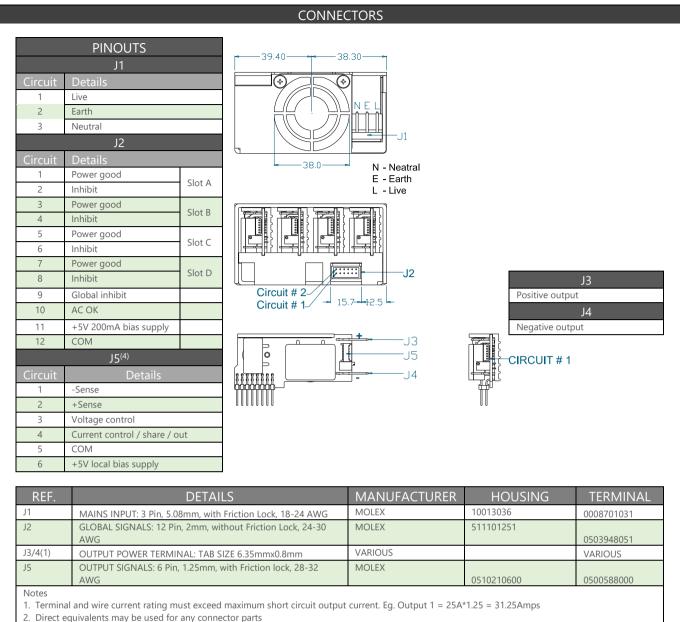




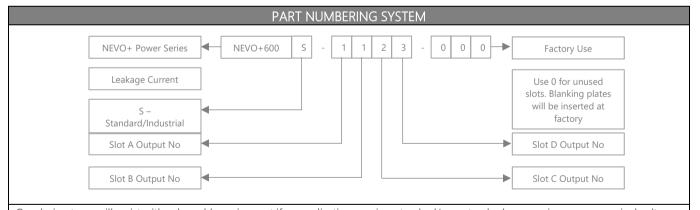








- All cables must be rated 105°C min, equivalent to UL1015
- Pinout is for single output types only



Our design team will assist with value add requirement if an application requires standard/non-standard accessories or non-nominal voltage

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+600S

All specifications are believed to be correct at time of publishing. Vox Power Ltd reserves the right to make changes to any of its products and to change or improve any part of the specification, electrical or mechanical design or manufacturing process without notice. Vox Power Ltd 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 products of Vox Power Ltd. VOX POWER LTD DISCLAIMS ALL WARRANTIES AND REPRESENTATIONS OF ANY KIND WHETHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF SUITABILITY, FITNESS FOR PURPOSE, MERCHANTABILITY AND NONINFRINGEMENT.

Please consult your local distributor or Vox Power directly to ensure that you have the latest revision before using the product and refer to the latest relevant user manual for further information relating to the use of the product. Vox Power Ltd products are not intended for use in connection with life support systems, human implantations, nuclear facilities or systems, aircraft, spacecraft, military or naval missile, ground support or control equipment used for the purpose of guidance navigation or direction of any aircraft, spacecraft or military or naval missile or any other application where product failure could lead to loss of life or catastrophic property damage. The user will hold Vox Power Ltd harmless from any loss, cost or damage resulting from its breach of these provisions.