

NEVO+600SL

LOW NOISE INDUSTRIAL AC/DC MODULAR CONFIGURABLE POWER SUPPLY

DATA SHEET

5"x3"x1.61"

Small

450W

Powerful

600g Light

















Our innovative NEVO+600SL modular configurable power supply is the smallest in its class and the ultimate power solution for demanding industrial applications where size, power density, weight and low noise are vital factors. Weighing only 600 grams, the compact package of 5" x 3" x 1.61" delivers up to 450 Watts with a minimum of audible noise.

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. The low noise fan allows you to use this innovative power supply in even the guietest of environments.

MAIN FEATURES

- 450 Watts in 3" x 5" x 1.61"
- Low noise operation (~18dBA reduction from S version)
- Intelligent fan control
- Efficiency up to 89%
- Up to 8 isolated outputs
- User and field configurable
- Parallel and series connection of modules
- Wide output voltage adjust range
- Remote current / voltage programming
- Constant current or voltage operation
- Standard 5V 200mA bias supply
- Industrial approvals
- 2 Year warranty

SPECIFICATIONS

		INPUT ELECTRICAL				
Parai	meter	Details	Min	Туре	Max	Units
AC inp	out 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			450	Watts
Input	current	450 Watts output at 120Vrms input			5	Amps
Inrush	current	265Vrms (cold start)			20	Amps
Fusing	,	5x20 Fast acting			8	Amps
Input	current limit	Maintains power factor		8		Amps
Efficie	ncy	See graphs		86	89	%
Idle po	ower	All outputs fitted and enabled		28		Watts
Idle po		All outputs fitted and disabled		21		Watts
	r factor	Typical value for 300 Watts output at 240Vrms input		0.96	0.99	
Holdu		450Watts output at 120Vrms input	21	24	26	mS
UVLO		Turn on only	78		84	Vrms
	temperature	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
б	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

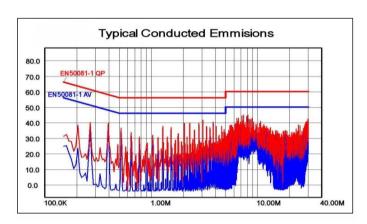
	SAFETY			
Parameter	Details	Min	Max	Units
	Input to output		4000	Vac
la alatia a Malta a a	Input to chassis		1500	Vac
Isolation Voltage	Output to chassis		250	Vdc
	Output to output		250	Vdc
Isolation Clearance	Primary to secondary (reinforced)	7		mm
isolation Clearance	Primary to chassis (basic)	2.5		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

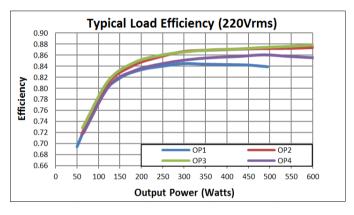
	MECHANICAL
Parameter	Details
Size	77.7mm x 133.7mm x 41.0mm (all external dimensions ± 1.0mm)
Weight	360 gram + 60 gram per output module
Mounting	Bottom or side mounting (see diagram for details)

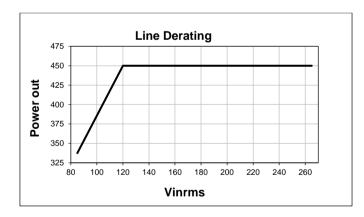
		ENVIRONMENTAL			
g e	Parameter	Details	Min	Max	Units
a	Temperature		-40	+85	°C
_ 0	Humidity	Relative, non-condensing	5	95	%
t o	Altitude		-200	5000	m
S	Air pressure		54	106	kPa
	T	Full power	-20	50	°C
0 ח	Temperature	Derate input and outputs at 2.5%/°C	50	70	°C
	Humidity	Relative, non-condensing	5	95	%
a t	Altitude	(-200 to 2000m for UL60601-1)	-200	3000	m
e r	Air pressure		78	106	kPa
α	Noise level	Variable. measured 1m from fan intake	18	42	dBA
O	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	
Si	Parameter	Standard	Level
Emissions	Radiated electric field	EN55011, EN55022, FCC	В
SS	Conducted emissions	EN55011, EN55022, FCC	В
E	Harmonic distortion	EN61000-3-2	Compliant
ш.	Flicker & fluctuation	EN61000-3-3	Compliant
	Electrostatic discharge	EN61000-4-2 (15kV air, 8kV contact)	4
>	Radiated RFI	EN61000-4-3 (10V/m)	3
nit	Fast transient burst	EN61000-4-4 (2kV)	3
Immunity	Input line surges	EN61000-4-5 (1kV L-N, 2kV L-E)	3
иĸ	Conducted RFI	EN61000-4-6 (10V)	4
=	Power freq. magnetic field	EN61000-4-8 (10A/m)	3
	Voltage dips	EN61000-4-11 (EN55024)	Compliant

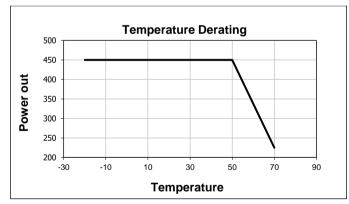
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Stan	dar	d	Def	tails						File	
UL609	950-	1			1 2nd e	edition er 19, 20	11			UL: E3	16486
IEC/EN	N609	950-	IEC 1:20		-1:2005	5 (2nd E	dition)	; Am			
CSA-C			2nd	Editio	n						
CE MA	ARK		LVD	2014	/35/EU						
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Efficiency	88 86 84					· 			pov	ver)	575 - 550 - 525 - 500 - 475 - 450

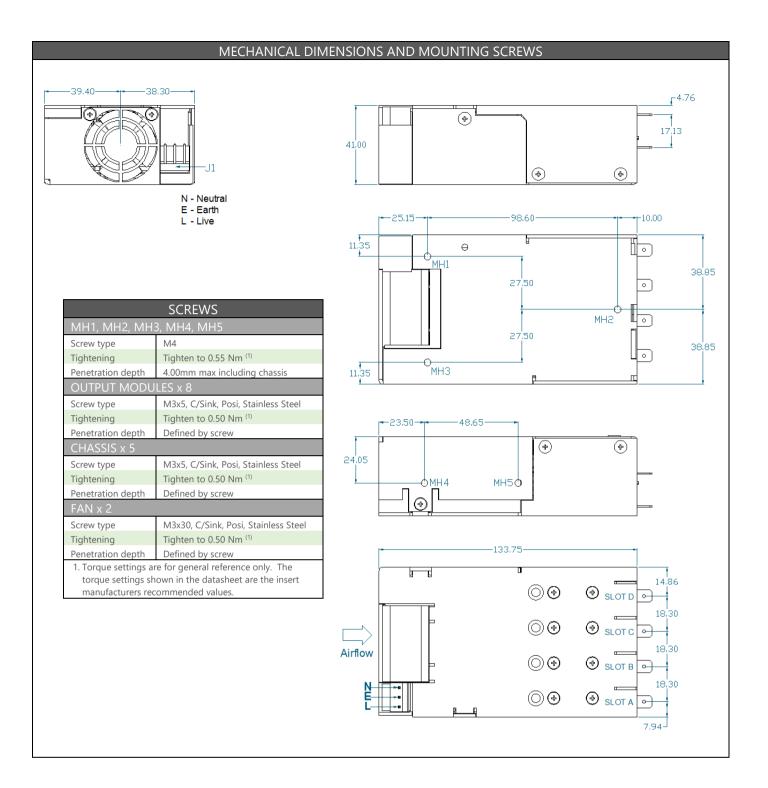


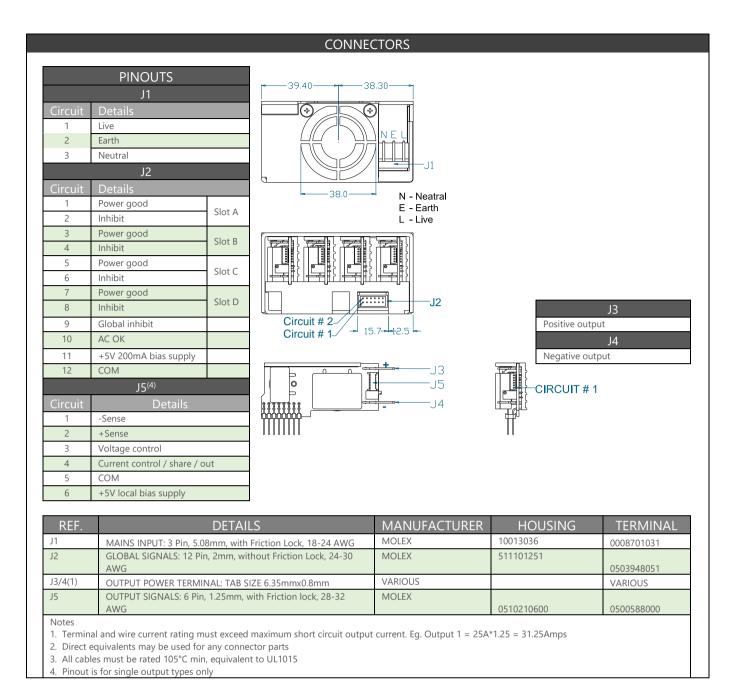


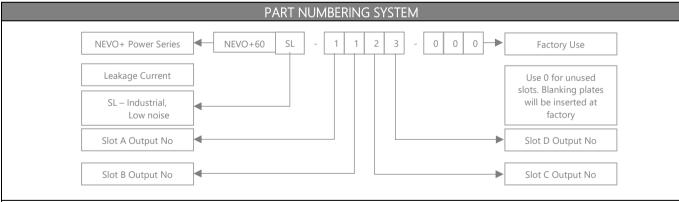


Input Voltage (Vrms)









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+600SL

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