

- Modular
- Configurable



600 watt in the palm of your hand

The NEVO 600 is a modular and user configurable power supply offering unrivalled performance and flexibility. Delivering up to 600 watts from a 600 gram 5" x 3" x 1U package, the NEVO is the ultimate power solution for applications where size and weight are vital factors. Each system consists of an input module together with up to eight isolated output modules. The series carry full UL60950 safety approvals and comply with EN61000-3, EN61000-4 and EN550022-B EMC standards.

MAIN FEATURES:

- √ 400 watt output at 120VAC
- √ 5" x 3" x 1U footprint
- √ High power density (25W/in³)
- ✓ Industrial approvals
- √ High reliability

- / High efficiency up to 89%
- ✓ Only 0.6kg 100W/kg
- ✓ I²C control option
- ✓ Remote current/voltage programming
- ✓ Accurate current sharing

- ✓ Current output signal
- √ 5V 200mA bias supply
- ✓ RoHS compliant
- √ Field configurable
- √ Two year warranty

SYSTEM SPECIFICATIONS

INPUT ELECTRICAL						
Parameter		Details	Min	Тур	Max	Units
AC Input Voltage		Nominal range is 100Vrms to 240Vrms	85		264	Vrms
AC Inpi	ut Frequency	Contact factory for 400Hz operation.	47	50/ 60	63	Hz
DC Inp	ut Voltage	Standard	120		370	Vdc
Power	Rating	See graphs for deratings			600	Watts
Input C	Current	600Watts output at 180Vrms input			4	Amps
Inrush	Current	265Vrms (cold start)			20	Amps
Fusing		5x20 Fast acting			5	Amps
Input C	Current Limit	Maintains power factor		6		Amps
Efficier	ncy	See graphs		86	89	%
Idle Po	wer	All outputs fitted and enabled		28		Watts
Idle Po	wer	All outputs fitted and Disabled		21		Watts
Power Factor		Typical value for 300Watts output at 240Vrms input		0.96	0.99	
Holdup)	600Watts output at 180Vrms input	17	20	21	mS
UVLO		Turn on only	78		84	Vrms
Over te	emperature	Internally monitored. Latching	115		125	°C
Reliabi	lity	40°C 80% load			2	FPMH
	Bias Voltage		4.8	5	5.2	V
	Bias current		0		200	mA
	Power Good voltage	PNP open collector with internal 10k pull down resistor	8	10	15	V
S	Power Good current		0		20	mA
- е	Inhibit voltage		2		15	V
Sign	Inhibit current	10k ohm input impedance	0.2		1.5	mA
	Global inhibit voltage		3		15	V
	Global inhibit current	5k ohm input impedance	0.6		3	mA
	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	П	IP Rating	IP10		
Pollution degree	2	ROHS Compliance	2002/95/EC		
Material group	IIIb (indoor use only)				

RELIABILITY					
Component	Details	Min	Max	Units	
FAN	Mag Lev Std		3.8	FPMH	
INPUT	Excluding FAN		2	FPMH	
ОИТРИТ	See individual output datasheets		1	FPMH	
Warranty			2	Years	

SAFETY						
Parameter	Details	Min	Max	Units		
	Input to Output		4000	Vac		
Isolation	Input to Chassis		1500	Vac		
Voltage	Output to Chassis		250	Vdc		
	Output to Output		250	Vdc		
Isolation	Primary to Secondary (Reinforced)	7		mm		
Clearance	Primary to Chassis (Basic)	2.5		mm		
Isolation	Primary to Secondary (Reinforced)	12		mm		
Creepage	Primary to Chassis (Basic)	4		mm		
Leakage Current	Standard: 265Vac, 63Hz, 25°C		1500	uA		

MECHANICAL				
Parameter	Details			
Size	77.7mm x 129.7mm 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)			

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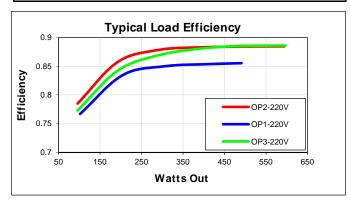
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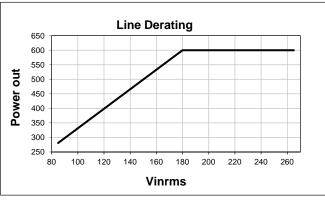




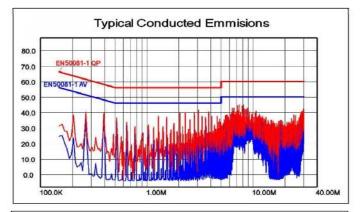
ENVIRONMENTAL					
	Parameter	Details	Min	Max	Units
90 0	Temperature		-40	+85	°C
Storag	Humidity	Relative, non-condensing	5	95	%
St	Altitude		-200	5000	m
	Air Pressure		54	106	kPa
	Temperature	Full power	-20	50	°C
		Derate input and outputs at 2.5%/°C	50	70	°C
_	Humidity	Relative, non-condensing	5	95	%
ti o n	Altitude	(-200 to 2000m for UL60601-1)	-200	3000	m
era	Air Pressure		78	106	kPa
d O	Noise Level	Measured 1m from fan intake		45	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			

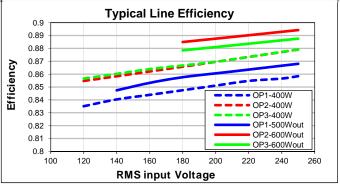
AGENCY APPROVALS						
Standard	Details	Standard	Details			
IEC/EN60950-1						
UL60950-1						
CSA-C22.2 No. 60950-1-03						
CE MARK	LVD 73/23/EEC	UL file number	UL: E316486			
CB certificate and report available on request						

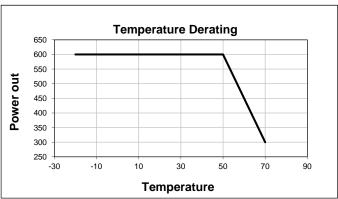




		EMC	
	Parameter	Standard	Level
suc	Radiated electric field	EN55011, EN55022, FCC	В
Emissions	Conducted emissions	EN55011, EN55022, FCC	В
Em	Harmonic Distortion	EN61000-3-2	Compliant
	Flicker & Fluctuation	EN61000-3-3	Compliant
Immunity	Electrostatic discharge	EN61000-4-2 (15kV air, 8kV contact)	4
	Radiated RFI	EN61000-4-3 (10V/m)	3
	Fast Transient burst	EN61000-4-4 (4kV)	4
	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







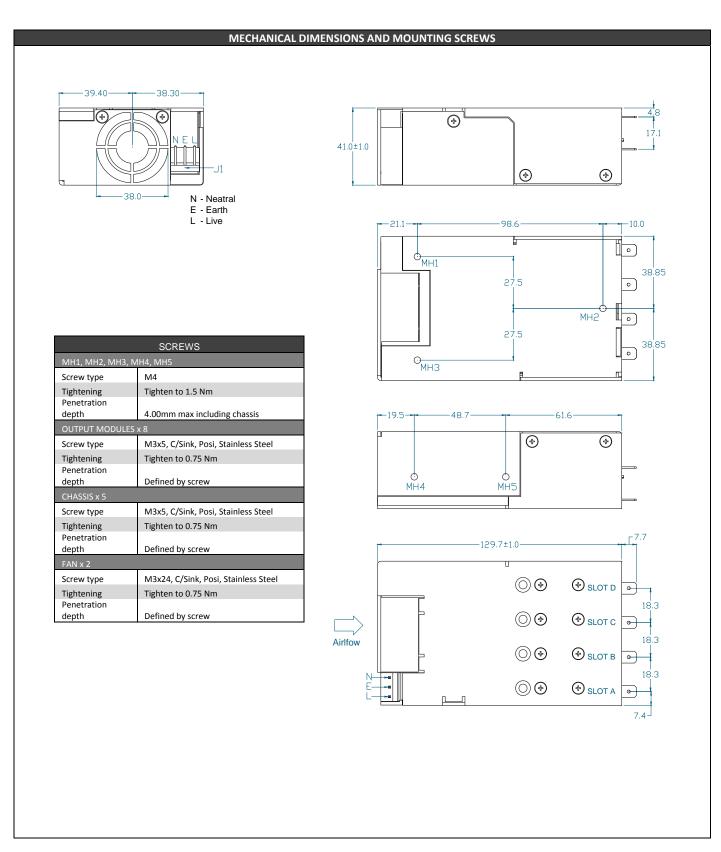
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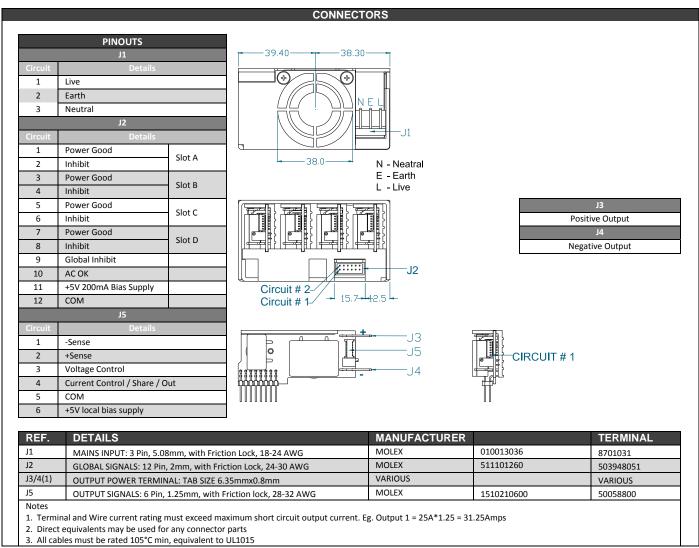


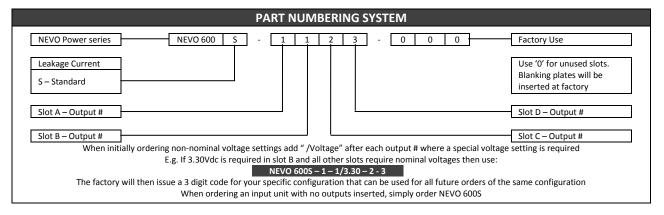
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Document DOC6001 rev 05

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