

- Modular
- Configurable
- Patents pending
- Reduced fan noise
- Enhanced Line-Derating



600 watt in the palm of your hand

The enhanced NEVO+ series features improved low input line derating delivers 600 watts without the need to derate for line voltages above 120Vac making the NEVO+ the ultimate power solution for products destined for the global market. Through the implementation of a fan control circuit the NEVO+ also features reduced fan noise. The NEVO+ delivers up to 600 watts from a 600 gram 5" x 3" x 1U package and consists of an input module together with up to four isolated output modules. The series carry full UL60950 safety approvals and comply with EN61000-3, EN61000-4 and EN550022-B EMC standards.

### **MAIN FEATURES:**

- ✓ No Line derating above 120VAC
- ✓ Reduced fan noise
- ✓ 600 watt output
- √ 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
- ✓ I<sup>2</sup>C control option
- ✓ Remote current/voltage programming
- ✓ Current output signal

- ✓ Accurate current sharing
- √ 5V 200mA bias supply
- √ RoHS compliant
- √ Field configurable
- Two year warranty

### **SYSTEM SPECIFICATIONS**

INPUT ELECTRICAL						
Parameter Details Min Typ Max Unit						Units
AC Input Voltage		Nominal range is 100Vrms to 240Vrms	85		264	Vrms
AC Inp	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 120Vrms input			6	Amps
Inrush	Current	265Vrms (cold start)			20	Amps
Fusing		5x20 Fast acting			8	Amps
Input C	Current Limit	Maintains power factor		8		Amps
Efficier	псу	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 120Vrms input	17	20	21	mS
UVLO		Turn on only	78		84	Vrms
Over to	emperature	Internally monitored. Latching	115		125	°C
Reliability		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
v	Power Good current		0		20	mA
<u>–</u>	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	1	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		2.7	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 133.7mm x 41.0mm (all external dimensions $\pm$ 1.0mm)			
Weight	360 gram +60 gram per output module			
Mounting	Bottom or Side mounting (See diagram for details)			

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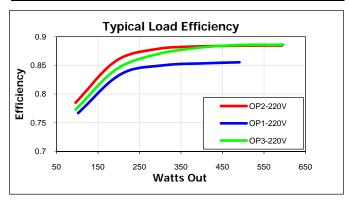
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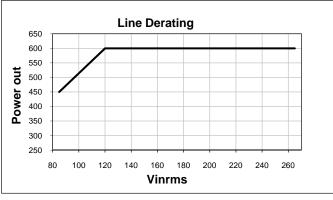
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ENVIRONMENTAL					
	Parameter	Details	Min	Max	Units
90	Temperature		-40	+85	°C
e -	Humidity	Relative, non-condensing	5	95	%
Sto	Altitude		-200	5000	m
	Air Pressure		54	106	kPa
	Temperature	Full power	-20	50	°C
		Derate input and outputs at 2.5%/°C	50	70	°C
_	Humidity	Relative, non-condensing	5	95	%
peration	Altitude	(-200 to 2000m for UL60601-1)	-200	3000	m
e -	Air Pressure		78	106	kPa
0 p (	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			

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						

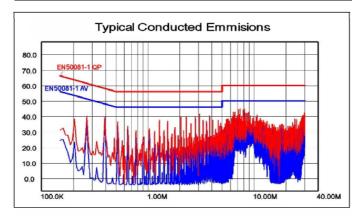


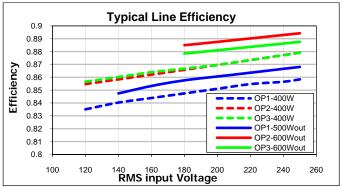


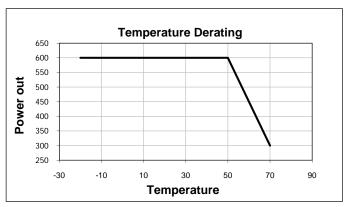


**Patents pending** 

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		
	Electrostatic discharge	EN61000-4-2 (15kV air, 8kV contact)	4		
	Radiated RFI	EN61000-4-3 (10V/m)	3		
nity	Fast Transient burst	EN61000-4-4 (4kV)	4		
mmunit	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		



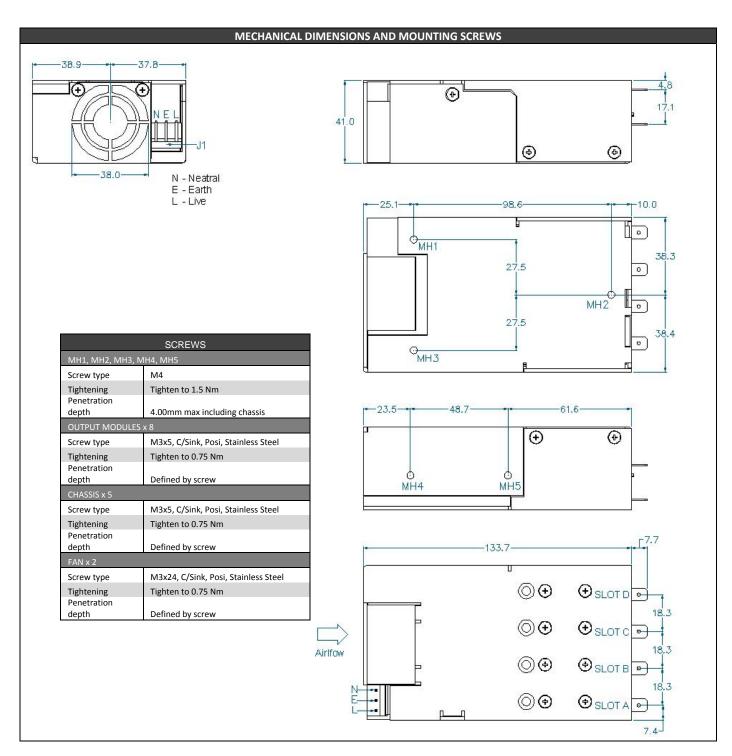




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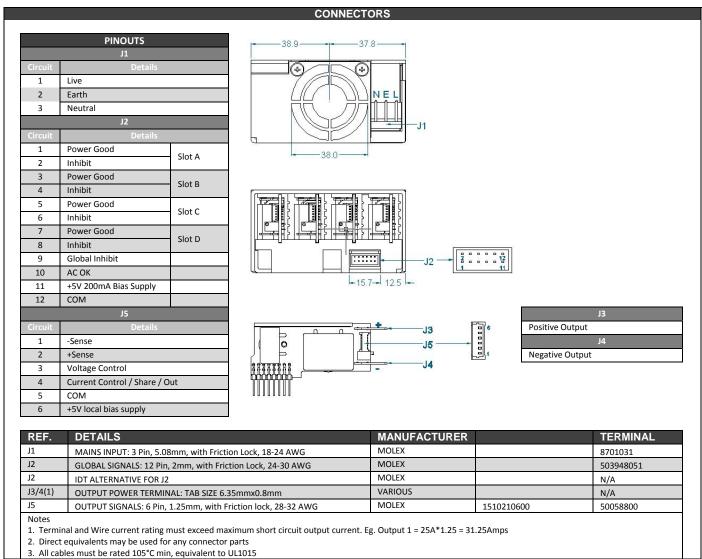
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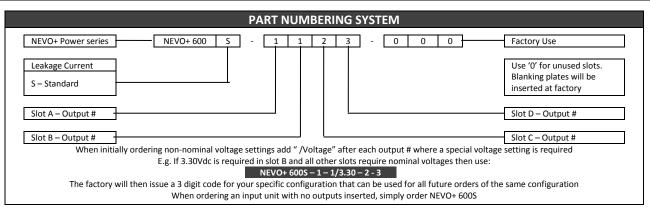
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